



## PIERRE Y. JULIEN

Ph.D., P.Eng., Dist. M. ASCE

**Emeritus Professor**

Civil and Environmental Engineering

Engineering Research Center, B-205

Colorado State University

Fort Collins, Colorado 80523

e-mail: [pierre@engr.colostate.edu](mailto:pierre@engr.colostate.edu)

**July 2024**

### EDUCATION

Degree	Field	Institution	Year
B.Sc.A	Civil Engineering	Laval University	1977
M.Sc.	Civil Engineering (hydraulics)	Laval University	1980
Ph.D.	Civil Engineering (hydraulics)	Laval University	1983

### PROFESSIONAL EXPERIENCE

Dr. Julien is Emeritus Professor of Civil and Environmental Engineering at Colorado State University (CSU). He served 41 years at CSU and gained Professional Engineering experience in hydraulic engineering.

### SUMMARY of RESEARCH ACTIVITIES

Dr. Julien is a renowned expert in river engineering, sedimentation, hydraulics and hydrology. He authored 600+ scientific contributions including three textbooks, 35 book chapters and manuals, 200 refereed journal publications, and 250 conference papers and presentations. He delivered 25 keynote addresses and taught 20 short courses. Under his guidance, 44 Ph.D. and 130+ master students completed their degrees.

### PROFESSIONAL HIGHLIGHTS

- [\*Essentials of Hydraulics\*](#), Cambridge University Press (1<sup>st</sup> Ed. 2022)
- [\*River Mechanics\*](#), Cambridge University Press (2<sup>nd</sup> Ed. 2018)
- Superfund Site External Technical Review Board Member (2016-)
- Session moderator at the [World Water Forum](#) (2015)
- Benchmarking [CWPRS operations for the World Bank](#) (2012-13)
- [Intl. Expert on Four Major River Restoration](#), South Korea (2011-12)
- [\*Erosion and Sedimentation\*](#), Cambridge Univ. Press (2<sup>nd</sup> Ed. 2010)
- Associate Dean for Intl. Research and Development at CSU (2006-07)
- [Editor](#) of the ASCE Journal of Hydraulic Engineering (2002-05)
- <https://www.researchgate.net/scientific-contributions/Pierre-Y-Julien-81174906>

### AWARDS and HONORS

- 2022 [Distinguished](#) Member of the ASCE - [video](#)
- 2015 [Hunter Rouse Hydraulic Engineering Lecture](#) of the ASCE/EWRI
- 2004 [Hans Albert Einstein Award](#) of the ASCE

# **PIERRE Y. JULIEN, Ph.D., P.Eng., Dist. M.ASCE**

## ***Long Resume***

Professor of Civil and Environmental Engineering  
Engineering Research Center, B-205  
Colorado State University  
Fort Collins, Colorado, 80523  
Phone: (970) 491-8450 and (970)-310-6291  
e-mail: pierre@engr.colostate.edu

## **EDUCATION**

<b>Degree</b>	<b>Field</b>	<b>Institution</b>	<b>Year</b>
B.Sc.A.	Civil Engineering	Laval University	1977
M.Sc.	Civil Engineering (hydraulics)	Laval University	1980
Ph.D.	Civil Engineering (hydraulics)	Laval University	1983

## **PROFESSIONAL REGISTRATION**

- Registered Professional Engineer since 1980, P.Eng. # 32325, Ordre des Ingénieurs, Québec, Canada.

## **PROFESSIONAL EXPERIENCE**

- Emeritus Professor, Dept. of Civil and Environmental Engineering, Colorado State University, 2023- retired from CSU in August 2024.
- Leader of the Hydraulics Program, Dept. of Civil & Env. Eng., CSU, 1996-00, and 2004-2023.
- Associate Dean for International Research and Development, CSU, 2006-07.
- Full Professor, Dept. of Civil and Env. Engineering, CSU, since 1995.
- Tenured Associate Professor, Dept. of Civil Engineering, CSU, 1989-94.
- Assistant Professor, Department of Civil Engineering, CSU, 1985-89.
- Faculty Affiliate, Department of Civil Engineering, CSU, 1983-85.
- Professeur Substitut, Département de Génie Civil, Université Laval, Québec, Canada, 1979-80.
- Graduate Research Assistant, Département de Génie Civil, Université Laval, Québec, Canada, 1974-79.
- Graduate Teaching Assistant, Département de Génie Civil, Université Laval, Québec, Canada, 1974-79.

## **AWARDS**

- Post-graduate scholarship from the National Research Council of Canada, CNRC-NSERC, 1977-79.
- NATO Post-doctoral fellowship, administered by Natural Sciences and Engineering Research Council of Canada, CNRC-NSERC, 1983-85.
- Best Paper Award, American Society of Agricultural Engineers, 1986.
- J.C. Stevens Award of the American Society of Civil Engineers, 1989.
- Halliburton New Faculty Research Award, College of Engineering, CSU, 1989.
- Faculty of the year at Allison Hall, Colorado State University, 1996.
- Abell Faculty Research and Graduate Program Support Award of Excellence for outstanding achievement and professionalism in education, research, and service to graduate students, College of Engineering, CSU, 1999.
- Faculty Research Award at the Civil Engineering Dept., CSU, 2002.
- Endowed Borland Professorship in Hydraulics at the Civil Engineering Department at CSU, 2003-2005.
- [Hans Albert Einstein Award](#) of the ASCE, 2004.
- Outstanding Faculty Performance Award, Civil Engineering Department, CSU, 2006.
- Faculty Award for Excellence in Service, Civil and Environmental Engineering Department, 2009.
- Best Reviewer of the ASCE Journal of Hydraulic Engineering, 2010.
- [Hunter Rouse Hydraulic Engineering Lecture of the ASCE/EWRI](#) at the [World Environmental and Water Resources Congress](#), Austin, TX, May 20, 2015.
- Distinguished Member of the American Society of Civil Engineers, Anaheim, October 24, 2022. [Photo](#) and [video](#).

## **TEACHING EXPERIENCE**

- Erosion and Sedimentation, CSU.
- River Mechanics, CSU.
- Hydraulic Engineering, CSU.
- Engineering Mechanics - Statics and Dynamics, CSU.
- Fluid Mechanics for Non-Engineers, CSU.
- Environmental River Mechanics, CSU.
- Hydrodynamics, Université Laval, Québec, Canada.
- Flow in Closed-Conduits, Université Laval, Québec, Canada.
- Experimental Fluid Mechanics and Hydraulics, Université Laval, Québec, Canada.

## WORKSHOPS AND SHORT COURSES

- Two-Day Short Course: "Rivers and Sedimentation", US Bureau of Reclamation, Denver Technical Center, Denver Colorado, January 17-18, 2024. [Videos available](#).
- Half-day Short Course: "Reservoir Sedimentation", International Conference on Dam Safety Management and Engineering for the Malaysia Committee on Large Dams (MYCOLD), Wembley Hotel, Penang, Malaysia Nov. 21, 2019.
- Half-day Short Course: "Modeling and Management of Reservoir Sedimentation", Invited by the Directorate General of Water Resources, Indonesia for the Training for Technical Planning of Small Dams, Diponegoro University, Semarang, Java, Indonesia, May 28, 2018.
- One Day Short Course: "Stream restoration and River Engineering", Latin American IAHR Congress, Lima, Peru, September 27, 2016.
- Eight Day Course: "River Mechanics and Sediment Transport – Key Concepts to Rehabilitate Watercourses and Fluvial Ecosystems," Laboratorio Nacional de Hidraulica, Universidad Nacional de Ingenieria, Lima, Peru, January 4-14, 2016.
- Five Day Course: "Principles of Applied Hydrology: Catchment Hydrology and Sediment Transport." Renewable Energy School (RES), University of Akureyri, Akureyri, Iceland, June 21-25, 2010.
- Two Day Short Course on Sediment Transport, Faculty of Civil Engineering, Universiti Teknologi MARA, Shah Alam, Selangor, Malaysia, April 6-7, 2010.
- Four Day Short Course: "TRES Training Seminar" Primary Instructors M. Velleux and S.C. Shah-Fairbank in collaboration with P.Y. Julien, J. Halgren and J. England. Engineering Research Center, Colorado State University, Fort Collins, CO 80523, June 2-5, 2009.
- Two-day Short Course on "Erosion and Sedimentation", at the University Gadjah Mahda, Yogyakarta, Indonesia, July 22-23, 2009.
- One-day Short Course on "Sedimentation in Dams and Reservoirs: Problems and Solutions, "Part of the International Conference on Construction and Building Technology, Kuala Lumpur, June 16, 2008.
- Half-day Technical Talk on "Sedimentation and River Engineering," Sponsored by the Ministry of Natural Resources and Environment (NRE) and the Department of Irrigation and Drainage (DID) Malaysia, at the River and Coastal Division of DID, Kuala Lumpur, Malaysia, March 12, 2008.
- One-week Short Course on Erosion and Sedimentation, Universiti Teknologi MARA, Shah Alam, Selangor, Malaysia, January 7-12, 2008.
- Four-day Short Course on "TRES Training Seminar", with M. Velleux, S.C. Shah, J. Halgren and J. England, Colorado State University, July 24-28.

2006.

- One and one-half Day Short Course on Sedimentation in Dam and Reservoir: Problems and Solutions, Department of Civil Engineering, Universiti Tenaga Nasional, UNITEN, Selangor Darul Ehsan, Malaysia, July 20-21, 2006.
- One and one-half Day Short Course on River Protection and Watershed Modeling, Faculty of Civil Engineering, Universiti Teknologi MARA, Shah Alam, Selangor, Malaysia, May 26-27, 2006.
- Three-day Short Course on River Engineering and Stream Rehabilitation, organized by the Key State Laboratory, College of Water Resources and Hydropower, Wuhan University, Wuhan, China, Sept. 19-21, 2005.
- Invited Speaker at the three-day Seminar "River Rehabilitation Seminar - River M-1", organized by REDAC, Universiti Sains Malaysia, in collaboration with DID and Wira Kerjaya Sdn.Bhd., Penang, Malaysia, May 2005.
- Three-day Short course entitled: "River Engineering and Stream Restoration" by P.Y. Julien and S. Ikeda at the 4<sup>th</sup> International Symposium on Environmental Hydraulics, Hong Kong, Dec. 2004.
- Half-day Seminar entitled "Stream Restoration and River Mechanics", part of the First International Conference on Managing Rivers in the 21<sup>st</sup> Century, Universiti Sains Malaysia, Penang, Malaysia, September 20, 2004.
- Three-week Short Course: Special Topics in Hydraulics - Keynote Lectures in Hydraulics by D.B. Simons, E.V. Richardson and J. Liou, CSU, May 24-June 11, 1999.
- Three-day Short Course on Flood Hazard Mitigation, Cliff Lodge at Snowbird Utah, October 5-7, 1998.
- Organized a Two-day Short Course on Debris Flow Modeling Using FLO2D, World Trade Center, San Francisco, August 5-6, 1997.
- Two-week training expert and team leader on soil erosion control and streambank protection for CID/ World Bank to a delegation of 10 Turkish Engineers in France, Oct. 10-25, 1996.
- Organizing the Center for Geosciences five-day Workshop on "Two-dimensional Surface Runoff Modeling", January 16-20, Fort Collins, 1995.
- Organizing the Center for Geosciences Hydrology Workshop at the Fort Collins Marriott for the ARO Center for Geosciences, 1988.

## **UNIVERSITY SERVICE at CSU**

- Graduate Student Master of Engineering Plan C - Water Resources Track Adviser, 1996-2023.
- Member of the Order of the Engineer Committee at CSU, 1996-
- Member of the CEE Scholarship Committee, 2011-2023.
- Elected Member of the CEE Promotion Committee, 2021-2023.
- Member of the CSU 1870 Club, 1999, 2003-10, 2011-16.
- Elected Member of the CEE Promotion Committee, 2015-19
- Water Seminar Series, Oct. 7, 2021
- Water Science and Engineering Seminar, Nov. 8, 2019
- Member of the CEE Department Review Committee, 2015-18
- Chair (2017) and member of the CEE Accreditation Committee 2014-17
- Chair (2015) and elected member of the Promotion Committee, Department of Civil and Environmental Engineering, 2010-15.
- Coordinator of the Hydraulics and Wind Engineering Division, 2003-15.
- Chair (2013) and elected member of the Tenure Committee, Department of Civil and Environmental Engineering, 2009-13.
- Member of the Water Search Committee, 2011-12.
- Member of the Graduate Instruction Committee, 2007-2009.
- Member of the Civil and Environmental Engineering Strategic Planning Committee, 2008-2011.
- Member of the Dean's Advisory Committee, representing the Civil and Environmental Engineering Department, 2008-2010.
- Chair (2007) and elected member of the CEE Department Promotion Committee 2003-07.
- Member, College of Engineering Leadership Committee, 2006-07
- Member, College of Engineering Executive Committee, 2006-07
- Member of the CSU President's Club, 2005-08
- Member, College of Engineering Advisory Board, 2004-07
- Member, Program Review Committee for the Department of Music Theater and Dance, 2007.
- Chair (2006) and elected member of the CE Dept. Tenure Comm., 2001-06.
- Member of the Borland Advisory Committee, 2002-06.
- Chair of the Fluid Dynamics faculty Search Committee, 2005-06.
- Coordinator of the NSF-CUAHSI National Center for Hydrologic Synthesis Proposal.
- Member of the College Evaluation Committee, 2001-02.
- Coordinator, Hydraulics and Wind Engineering Division, 1997-00.

- Coordinator of the Hydraulics Program, 1996-00.
- Member of the Civil Engineering Advisory Committee, 1996-00.
- Chair of a Faculty Search Committee in Environmental Hydraulics, 1998-1999.
- Chair of the Department Graduate Instruction Committee, 1998, member 1997.
- Member, Ad-Hoc Committee on Graduate Student Enrollment, 1999.
- Member, College Professional Development Committee, 1998-99.
- Chair, Civil Engineering Tenure Committee, 1997, member 1993-96.
- Chair (1996) and member of the CE Awards Committee, 1993-96.
- CSU-CHILL Radar Advisory Committee, 1988-95.
- Civil Engineering Advisory Committee, 1990-91.
- College Faculty Awards Committee, 1990.
- Chair of the University Faculty Council Committee on Research, 1990.
- Chair of the Departmental Computing Committee, 1987.
- Member of the Univ. Faculty Council Comm. on Libraries, 1989-91.
- Member of the Dept. Undergraduate Instruction Committee, 1986-90.
- Departmental Library Liaison, 1986-1991.

## **MANUSCRIPT AND PROPOSAL REVIEWS**

- Editor of the ASCE Journal of Hydraulic Engineering - handled the review of about 1250 refereed journal articles from 2002-05.
- Reviewed about five hundred additional papers for ASCE, JFM, AGU, IAHR, JGR, JASC, Catena, Sed. Geol., J. Hydrol., IASTED, IJSR, and numerous conferences articles until 2005. Additionally, I reviewed 350 refereed journal papers from 2006-16. I reviewed ~35 refereed papers per year since 2016.
- Reviewed 80+ proposals for NSF, ARO, USBR, SERDP, NSERC, SNF, etc.
- Reviewer for 50+ books, book proposals and reports since 2006.

## **PROFESSIONAL AFFILIATIONS AND MEMBERSHIPS**

- Professional Engineer registration and member of the Ordre des Ingénieurs, Québec, Canada (P. Eng. License # 32325) since 1980.
- Distinguished Member (Class of 2022), and Life member of the American Society of Civil Engineers (ASCE # 239111) since 2019.
- Life member of the United States Committee on Irrigation and Drainage (USCID).
- Life member of the United States Society on Dams (USSD), formerly,

- the U.S. Committee on Large Dams (USCOLD).
- Founding Member of the World Association for Sediment and Erosion Research (WASER).
- Past Member of the International Association for Hydraulic Research (IAHR # 10818).
- Past Member of the American Geophysical Union (AGU).
- Past Member of the American Society on Engineering Education (ASEE).
- Past Member of the American Water Resources Assoc. (AWRA # 14192).
- Past Member of the International Water Resources Association (IWRA).
- Past Member of the Steering Committee of UNESCO-IHP-ISI.
- Past Fellow of the Cooperative Institute for Research in the Atmosphere (CIRA).
- Past Fellow of the Institute of Arctic and Alpine Research (INSTAAR).
- Past Member of the American Society of Agricultural and Biological Engineers (ASABE # 21687).
- Past Editor of the ASCE Journal of Hydraulic Engineering, 2002-05.
- Past member of the Environmental and Water Resources Institute Council of the ASCE (EWRI).
- Past member of the ASCE-EWRI Publications Council.
- Past member of the ASCE-EWRI Journals and Periodicals Council.
- Past member of the ASCE-EWRI Hydraulics and Waterways Council.
- Past member of the "Association des Diplômés de L'Université Laval" (ADUL #7309).
- Past member of the Canadian Society of Civil Engineering (CSCE) 1980-90.
- Past member of the American Water Foundation (AWF) until 1987.
- Past member of the Assoc. Sedimentologistes Français (ASF) until 1997.
- Past member of the American Society for Photogrammetry and Remote Sensing (ASPRS) until 1991.
- Past Advisory Board member of the CSU-CHILL radar at CSU, til 1994.
- Past control member of the ASCE Sedimentation Task Committee on Analysis of Lab. and Field Data Accuracy and Availability until 1993.
- Past control member of the ASCE Task Comm. on River Width Adjustments until 1998.

## NATIONAL ACTIVITIES

- Session Chairman, Hydrology Days, Fort Collins, March 20-21, 2018.
- Session Chairman, Hydrology Days, Fort Collins, March 22, 2017.
- Hunter Rouse Lecture at the ASCE-EWRI World Environmental and Water Resources Congress, Austin, May 20, 2015.
- Session Chairman, Hydrology Days, Fort Collins, March 25, 2015.
- Session Chairman, Hydrology Days, Fort Collins, March 26, 2014.
- Session Chairman, Hydrology Days, Fort Collins, March 27, 2013.
- Session Chairman, Hydrology Days, Fort Collins, March 2011.
- Best Reviewer of the ASCE Journal of Hydraulic Engineering, 2010.
- Session Chairman, Hydrology Days, Fort Collins, March 27, 2009.
- Member of the ASCE-EWRI Search Committee for the next Editor of the ASCE-Journal of Hydraulic Engineering, 2008-09.
- Session Chairman, Hydrology Days, Fort Collins, March 26-28, 2008.
- Invited Panel Member for a Discussion on "*Where are the coming opportunities for the Land Grant University to engage in global water issues.*" VPR Global Water Colloquium, March 25, 2008, Fort Collins.
- Reviewer of the Sediment Remediation at Chino Mines, for URS and Phelps Dodge, Silver City, NM, December 2007-08.
- Presentation and poster on "Hydrologic and Environmental Modeling of Watersheds", Center for Geosciences/Atmospheric Research Review, Fort Collins, April 17, 2007
- Invited Speaker at the USEPA Metals Fate and Transport Modeling Workshop, Denver, Colorado, February 13-14, 2007
- Research Theme Presentation on Watershed Chemical Transport and Fate Modeling, Army Research Lab., Adelphi, MD, Nov. 15, 2005.
- Invited Speaker and Session Chair at the 4th IAHR Symposium on River, Coastal and Estuarine Morphodynamics, The University of Illinois, Urbana, Illinois, USA, October 4 - 7, 2005
- Session Chairman at the ASCE-EWRI World Water Environmental Congress, Anchorage, Alaska, May 16-20, 2005.
- Presentation at the U.S. Bureau of Reclamation, entitled: "BORAMEP Total Load Analysis of the Low Flow Conveyance Channel on the Middle Rio Grande 2001", September 28, 2004, Denver Federal Center, CO.
- Presentation at the Hydrologic Engineering Center entitled "Modeling Transport and Fate of Sediments and Metals with CASC2D-SED", July 26, 2004, HEC, Davis, California.
- Presentation at the Lake Fork Meeting entitled "Fate and Transport of Metals in Surface Waters", Colorado Mountain College, Leadville, Colorado, July 23, 2004.
- Presentation at the EPA - Environmental Research Seminar entitled "Fate and Transport of Metals in Surface Waters", US EPA Region 8 and National Center for Environmental Research, Denver, Colorado,

- May 12, 2004.
- Seminar presentation entitled "Fate and Transport of Metals in Surface Waters" at Engineering Research Development Center, Vicksburg Mississippi, May 7, 2004.
  - Session Chairman at the 24<sup>nd</sup> AGU Conference on Hydrology Days, Fort Collins, CO, March 10-12, 2004.
  - Member of the Planning Committee of the USCID Conference on TMDL's in Sacramento, October 23-26, 2002.
  - Chair of the Journal of Hydraulic Engineering Meeting, Estes Park, Colorado, July 29, 2002, Philadelphia, June 23, 2003, Salt lake City, June 27, 2004 and Anchorage, May 16, 2005.
  - Poster and presentation entitled: "Fate and transport of metals and sediment in surface water", EPA-Region VIII, Denver Colorado Sept. 3, 2002, and Fort Collins, Colorado, July 31, 2002.
  - Presentation entitled "Advances in Watershed Erosion Modeling at CSU" at Engineering Research Development Center, Vicksburg Mississippi, July 16, 2002.
  - Presentation entitled "Advances in Watershed Erosion Modeling at CSU" at the National Center for Computational Hydraulic Engineering, University of Mississippi, Oxford, July 17, 2002.
  - Session Chairman at the 22<sup>nd</sup> AGU Conference on Hydrology Days, Fort Collins, CO, April 1-4, 2002.
  - Presentation at the 2002 Tailings and Mine Waste '02 Conference entitled "Fate and Transport of metals and sediment in surface waters", Colorado State University, January 29, 2002.
  - HSRC Seminar presentation "Fate and Transport of Metals and Sediment in Surface Waters" at the Colorado School of Mines, Golden, Colorado, January 17, 2002.
  - Presentation in Hydrometeorology entitled "Sediment transport modeling using CASC2D-SED" at the White Sands Missile Range, New Mexico, December 11, 2001.
  - Presentation, Order of the Engineers Ring Ceremony, Dec. 13, 2001.
  - Participation at the ASCE Editor's Workshop at the Houston Convention Center, October 13, 2001.
  - Facilitator of the Discussion Session on "Are we properly educating our future restoration specialists", ASCE Wetlands Engineering & River Restoration Conference, Reno Nevada, Aug. 27-13, 2001.
  - Seminar on "What's New in Sedimentation and River Mechanics", Waterways Experiment Station, Mobile District and New Orleans District, USACE, May 22-24, 2001.
  - Invited at the Order of the Engineer Ceremony, CSU, May 10, 2001.
  - Invited Speaker at the 21<sup>st</sup> Annual AGU Hydrology Days, CSU, Presentation entitled "The Study of Rivers" to honor Stan Schumm's contributions to fluvial geomorphology, April 2-5, 2001.

- Session Chairman at the 7<sup>th</sup> Federal Interagency Sedimentation Conference, Reno, Nevada, March 25-30, 2001.
- Invited speaker and session chair at the Landscape Erosion and Sedimentation Modeling Workshop, Ft. Collins, Colorado, March 1999.
- Facilitator of the Discussion Session on "How do we educate our future stream restoration specialists", ASCE Wetlands Engineering & River Restoration Conference, Denver, Colorado, 1998.
- Seminar on "Review of two-dimensional surface runoff modeling with CASC2D, GIS and radar data", National Weather Service, Office of Hydrology, Washington D.C., 1997.
- Invited Speaker at the Conference on Management of Landscapes Disturbed by Channel Incision, May 20-22, Oxford, Mississippi, 1997.
- Invited speaker and Session Moderator at the First Intl. Conference on Debris Flow Hazards Mitigation, San Francisco, Calif., Aug. 7-9, 1997.
- Speaker and Moderator at the ASCE/IAHR Congress on Water for a Changing Global Community, San Francisco, California, Aug. 10-15, 1997.
- Speaker on Reservoir Sedimentation Modeling at the Reservoir Sedimentation Conference, Fort Collins, Colorado, Sept. 9-12, 1996.
- Speaker at the Reunion Symposium to honor Stanley Schumm, CSU Fort Collins, Colorado, 1996.
- Speaker on Flash flood Modeling at the Rocky Mountain Hydrologic Research Center, Estes Park, Colorado, Sept. 20, 1996.
- Invited Speaker, Iowa Institute of Hydraulic Research, "Hyperconcentrations of sediments", Iowa City, Iowa, 1994.
- Member USDA-ARS National Sedimentation Laboratory Review Team, Oxford, Mississippi, June 1994.
- Session Chairman at the AGU Hydrology Days, Fort Collins, CO, 1990.
- Session Chairman and presentation at the ASCE National Conference on Hydraulic Engineering in San Diego, California, 1990.
- Presentation at the International Symposium on Hydrology and Hydraulics of Arid Lands in San Diego, California, 1990.
- Session Chairman at the ASCE National Conference on Hydraulic Engineering in New Orleans, Louisiana, 1989.
- Presentation at the AGU Meeting in San Francisco, California, 1989.
- Session Chairman at the ASCE National Conference on Hydraulic Engineering at Colorado Springs, Colorado, 1988.
- Keynote presentation at the Megatrends in Hydraulic Engineering Conference, Fort Collins, Colorado, 1986.
- Presentation at the Third International Symposium on River Sedimentation in Jackson, Mississippi, 1986.
- Presentation at the IAHS Symposium on Drainage Basin and Sediment Delivery in Albuquerque, New Mexico, 1986.
- Presentation at the Fourth International Hydrology Symposium, Fort Collins, Colorado, 1985.

## **INTERNATIONAL ACTIVITIES**

- International Advisory Board member, Journal of Hydro-Environment Research, 2007-
- Review Board Member and Editorial Board member of the International Journal on Sediment Research, 2008-
- Steering Committee Member of the International Sediment Initiative of UNESCO-IHP, 2005-2020.
- International Collaborator, Institute for Infrastructure Engineering and Sustainable Management, Universiti Teknologi MARA, Shah Alam, Malaysia, 2010-2020.
- Co-organizer of the Korea-CSU Hybrid Workshop on Levees – A workshop on experiments and utilization of biopolymers for levee reinforcement, ERC Foothills Campus, CSU, August 11, 2021.
- Session Chairman and Member of the International Scientific Committee of the International Conference on Dam safety Management & Engineering (ICDSME 2019), Penang, Malaysia, Nov. 19-21, 2019.
- Member of the Scientific Committee of the 38<sup>th</sup> World Congress of IAHR, Panama, 2019.
- Keynote Speaker at the INACOLD National Seminar for Large Dams, Kota Mataram, Lombok, West Nusa Tenggara, Indonesia, May 26, 2018.
- Short course for the Ministry of Public Works and Housing at Diponegoro University and dinner with Minister Basuki Hadimuljono, Semarang, Indonesia, May 27-28, 2018.
- Invited General Lecture and Panelist at the 7Rios Fest in Cali, Colombia, May 19, 2018.
- Member of the International Scientific Committee of the 37<sup>th</sup> IAHR World Congress 2017, August 13-18, Kuala Lumpur, Malaysia, 2017.
- Invited Lecture at the K-water Headquarters, Daejeon, January 18, 2017.
- Alternate Member of the Sub-committee on Sedimentation (SOS), ACWI - Federal Inter-Agency Committee, 2010-2016.
- Invited Keynote Speaker at the XVII Latin American Congress on Hydraulics, Lima, Peru, September 28, 2016.
- Member of the International Scientific Advisory Committee of the International Symposium on River Sedimentation, Stuttgart, Germany, September 19-22, 2016.
- Member of the International Scientific Committee of River Flow 2016 - International Conference on Fluvial Hydraulics, Saint Louis, Missouri, July 10-14, 2016.
- Invited presentation at the Gangneung-Wonju National University on Sediment Yield from Ungauged Watersheds, Gangneung, South Korea, February 24, 2016.

- Invited lecture on Upland Erosion and Sediment Yield, KICT, Ilsan, South Korea, February 25, 2016.
- Invited plenary speaker at the "3<sup>rd</sup> Asia Conference on Urban Disaster Reduction," Organized by the Korean Society of Hazard Mitigation (KOSHAM), KINTEX, Seoul, South Korea, Nov. 28, 2015.
- Invited panelist at the "International Conference on Landslides and Debris Flow Disasters," Organized by the Korean Society of Hazard Mitigation, KINTEX, Seoul, South Korea, Nov. 27, 2015.
- Reviewer and Advisory Committee Member for the 2015 International Conference on Global Environment Pollution and Prevention (ICGEPP 2015) will be held in Doddaballapur, Bengaluru, Karnataka, India, November 6-7, 2015.
- Member of the International Program Committee for the International Conference on Water and the Environment, Banff, Canada, July 01-03, 2015.
- Invited Moderator of the Panel discussion of the Concluding Session 3.4: "SMART Implementation of IWRM" at the 7<sup>th</sup> World Water Congress", April 17<sup>th</sup>, 2015, Daegu, South Korea (about 700 participants).
- Invited lecture on "Dredging in the US and South Korea" at the K-Water The Arc Center, April 17<sup>th</sup>, 2015, Daegu, South Korea.
- Presentation on "Prospective Impact of Climate Change of Rivers and Water Resources" at the North America Water Experts Session of the 7<sup>th</sup> World Water Congress, April 16<sup>th</sup>, 2015, Gyeongju, South Korea.
- Invited Keynote address speaker and Session Chair at the International Commission for Continental Erosion (ICCE) and International Association for Hydrological Sciences (IAHS) Symposium on Sediment Dynamics from the Summit to the Sea, New Orleans, Louisiana, December 11-14, 2014.
- Member of the International Program Committee (IPC) for the IASTED International Conference on Environment and Water Resource Management (Asia EWRM 2014), Bangkok, Thailand from November 24 – 26, 2014.
- Member of the Technical Program Committee of the 3<sup>rd</sup> International Conference on Civil Engineering and Urban Planning, June 20-22, 2014.
- Invited Keynote Address speaker and Session Chairperson at the International Symposium on Flood Research and Management (ISFRAM 2014), Kota Kinabalu, Sabah, Malaysia, Sept. 28-Oct. 1, 2014.
- Invited Seminar presentation at the Korea Forest Research Institute, Seoul, South Korea, June 24, 2014.
- Invited Keynote address speaker at the SMART Water Grid International Conference, Songdo ConvensiA, Incheon, South Korea, Nov. 12-15, 2013.
- Member of the International Advisory Committee for the 12<sup>th</sup> International Symposium on River Sedimentation, Kyoto, Japan, September 2-5, 2013.
- Benchmarking review of CWPRS in Pune, India for the World Bank,

2012-2013.

- Reviewer for the 13<sup>th</sup> International Conference on Quality in Research 2013, Yogyakarta, June 25-28, 2013.
- Invited external examiner for the review of the Undergraduate Curriculum EC220 for the Faculty of Civil Engineering, Universiti Teknologi MARA, UiTM, Shah Alam, Malaysia, January 14-18, 2013.
- Invited Panelist of the Round-Table Discussion on the Five University Collaboration on a Flood Control Research Center, Vice-Chancellor Office, Universiti Teknologi MARA, UiTM, Shah Alam, Malaysia, January 17, 2013.
- Member of the International Advisory Committee for the Four Major Rivers Restoration Project, South Korea, 2010-12.
- Invited Speaker at the 2012 World River Forum, Daegu, South Korea, September 20-21, 2012.
- Member of the International Scientific Committee of the International Conference on Fluvial Hydraulics - River Flow 2012, San Jose, Costa Rica, September 5-7, 2012.
- Invited Lecturer at Yangzhou University, China, April 15-22, 2013.
- Invited Keynote address speaker at the Simposio Regional sobre Hidraulica de Rios, Santiago del Estero, Argentina, November 2-3, 2011.
- Invitation with Minister M.P. Shim for an interview by the Chosun Ilbo journalist for an article on the Four Major River Restoration Project, Ipo Weir on the South Han River, near Seoul, Gyonggi-do, South Korea, October 6, 2011.
- Invited Speaker and Panelist at the International Conference on River Restoration for Green Growth, Seoul Korea, October 7-8, 2011.
- Member of the International Scientific Committee of the 7<sup>th</sup> IAHR International Symposium on River, Coastal and Estuarine Morphodynamics (RCEM), Tsinghua University, China, September 6-8, 2011.
- Member of the International Organizing Committee of Rivers 2011, 3<sup>rd</sup> International Conference on Managing Rivers in the 21<sup>st</sup> Century, December 6-9, 2011, Penang, Malaysia.
- Member of the International Program Committee for the Integrated Water Management Conference, Murdoch, Australia, February 2-5, 2011.
- Member of the International Scientific Committee of River Flow 2010, Braunschweig, Germany, September 8-10, 2010.
- Invited Lecture entitled "Perspective internationale d'impact de changements climatiques sur les cours d'eaux", Cemagref, Grenoble, France, May 6, 2011. (en francais)
- Invited lecture to undergraduate engineering students and seminar presentation entitled "Hydraulic Modeling Analysis for Abandoned Channel Restoration: Cheongmi and Mangyeong Streams", Pusan National University, Busan, South Korea, April 15, 2011.
- Invited lecture on "Hydraulic Modeling Analysis for Abandoned Channel

Restoration: Cheongmi and Mangyeong Streams”, International Workshop of ECORIVER21, Seoul, South Korea, April 12, 2011.

- Invited lecture to undergraduate engineering students and seminar presentation entitled “Impact of climate change on rivers”, Pusan National University, Busan, South Korea, September 16, 2010.
- Member of the International Scientific Committee of the 8<sup>th</sup> International Symposium on Ecohydraulics, Seoul, South Korea, Sept. 2010.
- Member of the International Program Committee of the IASTED International Conference on Environmental Management and Engineering, Banff, July 15-17, 2010.
- Invited presentation on “ Prospective Impact of Climate Change on Rivers in the USA, Asia and Iceland”, University of Iceland, Reykjavik, June 15, 2010.
- Invited Panelist at the Forum “Innovation in Civil Engineering Research,” at the Launching and MoU Signing Ceremony of the Institute for Infrastructure Engineering and Sustainable Management (IIESM), Universiti Teknologi MARA, Shah Alam, Malaysia, April 8, 2010.
- Guest Speaker at the International Symposium on River Restoration Providing for Climate Change, Seoul Press Center, August 11, 2009.
- Invited Speaker at the Disaster Risk Reduction Workshop, University Gadjah Mada, Yogyakarta, July 23-24, 2009.
- Invited Speaker at the Seminar on Vision of the Four Major River Maintenance Project and Contaminant Transport Prediction in the Watersheds, Pusan National University, July 8, 2009.
- Member of the International Program Committee (IPC) for the IASTED International Conference on Environmental Modelling and Simulation (EMS 2008), Orlando, Florida, November 16-18, 2008.
- Member of the 6<sup>th</sup> International Sediment Initiative (ISI) Steering Committee Meeting and Workshop on Global Change Impacts and Role of ISI & The 7<sup>th</sup> IRTCES Advisory Council Meeting, Beijing, China, November 5-7, 2008.
- Invited Member of the International Scientific Advisory Committee, Joint IAHR-APD Congress and International Hydraulic Structures Symposium, October 20-23, 2008, Nanjing, China.
- Member of the International Program Committee (IPC) for the IASTED International Conference on Water Resources Management, Africa-WRM, Gaborone, Botswana, September 8-10, 2008.
- Member of the International Scientific Committee of River Flow 2008, Cesme-Izmir, Turkey, September 3-5, 2008.
- Invited seminar presentation entitled “Restoration of Abandoned Channels” for the Korea Institute of Construction Technology, Ilsan, South Korea, August 29, 2008.
- External Review of the River Sedimentation near NREB, in collaboration with Myongji University and Pusan National University, at the Busan

- Regional Office of K-Water, Busan, South Korea, August 25-26, 2008.
- Invited Keynote Address Speaker and Session Chair at the International Conference on Construction and Building Technology, June 16<sup>th</sup> 20<sup>th</sup>, 2008, Kuala Lumpur, Malaysia.
  - Invited Presentation on "Sedimentation and River Engineering, with Examples from Malaysia and Abroad" at the Department of Irrigation and Drainage (3/12), and at DNA (3/13) in Kuala Lumpur, Malaysia, March 12-13, 2008.
  - External Review of the River Management Manual, in collaboration with DNA and the National Hydraulic Research Institute Malaysia (NAHRIM), Kuala Lumpur, Malaysia, March 10-13, 2008.
  - Invited member of the Jury for the Ph.D. dissertation defense of Juan Jose Montoya Monsalve, Universidad Politecnica de Valencia, Valencia, Spain, February 25, 2008.
  - Invited Presentation on "Sedimentation Engineering, Incipient Motion and Bedforms", presented to the Faculty of Civil Engineering, Universiti Teknologi MARA, UiTM, Shah Alam, Selangor, Malaysia, Jan. 15, 2008.
  - External Review of the Water Resources Program at the Faculty of Civil Engineering, Universiti Teknologi MARA, UiTM, Shah Alam, Selangor, Malaysia, January 8-9, 2008.
  - Invited Presentation on "Under-graduate and Post-graduate Supervision and Examination", 2 hour talk presented to the Faculty of Civil Engineering, Universiti Teknologi MARA, UiTM, Shah Alam, Selangor, Malaysia, January 15, 2008.
  - Member of the International Organizing Committee of the Fourth International Conference on Debris Flow Hazards Mitigation, Chengdu, China, September 10-13, 2007.
  - Member of the International Program Committee (IPC) for the IASTED International Conference on Environmental Modelling and Simulation, EMS 2007, Honolulu, August 20 - 22, 2007.
  - Invited seminar presentation entitled "River Restoration and Flood Control" of the 2007 Korea Waterfront Research Association, Busan, South Korea, June 15, 2007.
  - Seminar presentation entitled "River Restoration and Flood Control", Korean Institute of Construction Technology, Seoul, South Korea, June 12, 2007.
  - Seminar presentation entitled "River Restoration and Flood Control" at MyoungJi University, Seoul, South Korea, June 11, 2007.
  - Invited Keynote Address Speaker at the 3<sup>rd</sup> International Workshop on River Environment, KINTEX, Seoul, South Korea, April 30, 2007(Paper).
  - Member of the International Program Committee (IPC) for the IASTED International Conference on Environmental Modelling and Simulation (EMS 2006), St. Thomas, November 29 to December 1, 2006.
  - Member of the Scientific Advisory Committee of the UNESCO

International Sedimentation Initiative Conference, Khartoum, Sudan, November 27-30, 2006.

- Member of the International Program Committee for the IASTED Intl. Conference on Environmentally Sound Technology in Water Resources Management, Gaborone, Botswana, Sept. 11-13, 2006.
- Member of the International Scientific Committee of the International Conference on Fluvial Hydraulics, Lisbon, Portugal, Sept. 4-6, 2006.
- Invited Speaker at the Short Course on Sedimentation in dam and reservoir: Problems and Solutions, Universiti Tenaga Nasional, Selangor Darul Ehsan, Malaysia, July 20-21, 2006.
- Invited Speaker at the Short Course on River Protection and Watershed Modeling, Universiti Teknologi MARA, Shah Alam, Selangor, Malaysia, May 26-27, 2006.
- Session Chair of the Eleventh Asian Congress of Fluid Mechanics (11ACFM), Kuala Lumpur, Malaysia, May 22-25, 2006.
- Presentation on the Design Options of the Muda River Flood Control Plan, Dept. Irrigation and Drainage, Kuala Lumpur, Malaysia, May 24, 2006.
- Postgraduate Seminar, Universiti Sains Malaysia, Nibong Tebal, Malaysia, May 17, 2006
- Member of the International Scientific Advisory Committee of the 1<sup>st</sup> International Conference on Monitoring, Simulation, Prevention and Remediation of Dense and Debris Flows, Rhodes, Greece, June 7-9, 2006.
- Member of the International Advisory Committee, Session Chair and Discussion Facilitator on Institutional Aspects of Key Sediment Issues & Problems, at the UNESCO-ISI Workshop on Sediment Management in South and Southeast Asia, AITCC, Bangkok, Thailand, April 2006.
- Chair of the UNESCO-ISI Workshop Session on Sediment Databases, and Presentations on databases, the Mississippi River Case Study and on a ISI Workshop, Sharm-El-Sheikh, Nov. 9-11, 2005.
- Invited Seminars on Watershed Erosion Modeling and on Typhoon Maemi and Hurricane Katrina, Korea Institute of Construction Technology, Seoul, South Korea, Sept. 14, 2005.
- Invited Lecture on Typhoon Maemi and Hurricane Katrina, Incheon Regional Environmental Technology Development Centre (IRTDC), Incheon University, Incheon, South Korea, Sept. 13, 2005.
- Session Chair (2 sessions) at the XXXI IAHR Congress, Seoul, September 11-16, 2005, South Korea.
- Member of the Steering Committee of UNESCO-IHP- ISI (International Sedimentation Initiative) and participation at the ISI Meeting in Vienna on April 28-30, 2005.
- Member of the International Advisory Committee for the 4th Intl. Symp. on Environmental Hydraulics (ISEH), Hong Kong, Dec. 15-18, 2004.
- Member of the International Advisory Committee, Session Chairman, and Member of the Best Paper Awards Committee of the 14<sup>th</sup> Congress of the

- Asian Pacific Division of IAHR, in Hong Kong, Dec. 15-18, 2004.
- Member of the International Program Committee (IPC) for the IASTED International Conference on Environmental Modelling and Simulation (EMS 2004), St. Thomas, Virgin Islands, USA, November 22-24, 2004.
  - Member of the International Advisory Committee for the International Conference on Hydraulic Engineering: Research and Practice (INCON-HERP-2004), Roorkee, India, October 26 - 28, 2004.
  - Member of the International Scientific Committee of the 9<sup>th</sup> International Symposium on River Sedimentation, Yichang, China, Oct. 18-21, 2004.
  - Founding member of the World Association for Sediment Research WASER, Beijing, China.
  - Member of the International Advisory Committee for the First International Conference on Managing Rivers in the 21<sup>st</sup> Century, Penang, Malaysia, September 21-25, 2004.
  - Seminar presentation entitled "Modeling Transport of Metals in Surface Waters" at the Korean Institute of Construction Technology, Seoul, Korea, June 16, 2004.
  - Seminar presentation entitled "Sedimentation Problem of the Lower Nakdong River" at the Korean Water Resources Corporation, Daejeon, Korea, June 14, 2004.
  - Member of the International Scientific Committee of the First International Conference on Service Reservoirs, Geneva, Switzerland, May 12-14, 2004.
  - Member of the International Organizing Committee of the Third International Conference on Debris Flow Hazards Mitigation, Davos, Switzerland, September 10-12, 2003.
  - Invited Lecture at Incheon University, South Korea, May 28, 2003.
  - Invited Lecture at Pusan National University, South Korea, May 29, 2003.
  - Member of the Scientific Committee of the International River Engineering Conference, Ahwaz, Iran, January 2003.
  - Session Chair at the Second International Symposium on Flood Defence, Beijing, China, Sept. 10-13, 2002.
  - One-day seminar on "River engineering and stream restoration", NAHRIM, Kuala Lumpur, Malaysia, August 9, 2002.
  - One-day Seminar on "Sediment transport and river mechanics" at REDAC, Penang, Malaysia, August 10, 2002.
  - Member of the International Advisory Committee, Invited Speaker and member of the "best paper" selection committee at the 13<sup>th</sup> APD-IAHR Congress, Singapore, August 2002.
  - Member of the International Organizing Committee of the Second International Conference on Debris Flow Hazards Mitigation, Taipei, Taiwan, August 18-20, 2000.
  - Invited Speaker at the ICHE, Cottbus, Germany, Aug. 31- Sept. 3, 1998.
  - Invited Speaker at the Granular Geomorphology Workshop, Lyon, France,

Sept. 7-11, 1998.

- Speaker at the IWRA, IX World Water Congress, Montreal, Canada, Sept. 1-6, 1997.
- Invited Speaker at the Workshop on "Structures Internes et Comportement des Suspensions Concentrées Géologiques", La Grande Motte, France, October 4-6, 1995.
- Invited Speaker, ETHZ Seminar, "Geosciences and Hyperconcentrations", Zurich, Switzerland, 1994.
- Invited Speaker and Session Chairman at the Intl. Workshop on Floods and Inundations Related to Large Earth Movements, Trento, Italy, 1994.
- Keynote paper at the International Workshop on Debris Flows, Kagoshima, Japan, 1993.
- Panelist at the Asia and Pacific Ocean Intl. Conference on Volcanic Debris Flow Disaster Prevention, Fukuoka, Japan, 1993.
- Invited Speaker and Session Chairman at the Pierre Beghin - International Workshop on Rapid Gravitational Mass Movements, Grenoble, France, 1993.
- Presentation on Sediment Transport at the Grain Sorting Seminar in Ascona, Switzerland, 1991.
- Presentations on the formation of dunes during floods at Delft Hydraulics and the Rijkswaterstaat, the Netherlands, 1991.
- Presentation on fluvial hydraulics at the IAHR Congress in Ottawa, Canada, 1989.
- Session Chairman at the Fourth International Symposium on River Sedimentation in Beijing, China, 1989.
- Presentation on soil erosion at the ASAE-CSAE Summer Meeting in Québec, Canada, 1989.
- Lecture to civil engineering undergraduate at the Hokkaido University in Sapporo, Japan, 1989.
- Presentation to professional engineers at the Hokkaido Development Bureau in Sapporo, Japan, 1989.
- Seminar on Hydraulic Geometry of Alluvial Channels at the Civil Engineering Department at Kyoto University, Kyoto, Japan, 1989.
- Presentation at the Centennial CSCE Conference, Montréal, Canada, 1987.
- Presentation on soil erosion for the Institution of Engineers Pakistan, in Peshawar, Pakistan, 1985.
- Presentation on Reservoir Sedimentation at Tarbela Dam, Pakistan, 1985.
- Presentation on Computer modeling of soil erosion for the Ministry of Irrigation in Cairo, Egypt, 1985.
- Presentation at the CSCE Hydrotech. Conf., Saskatoon, Canada, 1985.

## PROFESSIONAL STUDIES

- External Review Board Member for the Libby Asbestos Mine in Montana for Stantec/MWH Global, since 2016.
- Analysis of the morphological changes of the Rio Grande River after the construction of Cochiti Dam, for the U.S. Bureau of Reclamation, Albuquerque, since 1997.
- Review of the Impact of headcutting on the Coca Codo Sinclair operations on Rio Coca in Ecuador, 2021.
- Member of the Field review of Sand Creek, Colorado Springs for the Stormwater Division of the City of Colorado Springs, CO, 2016.
- Review of the sediment yield at Daedeok Dam in South Korea for Dohwa Engineering, 2016.
- Analysis of hyper-concentrated flows at Candelaria and Enlozada, for MWH, 2014.
- Review of the Candelaria Tailings Dam for MWH, Denver, 2014.
- Development of models for surface runoff, upland erosion, fate and transport of metals with applications at the EPA Superfund site at California Gulch, Colorado, for the ARO-ARL CG/AR Center for Geosciences since 1986-2012.
- Benchmarking Review of CWPRS for the World Bank, 2012-13.
- Stream Restoration Analysis of the Mangyeong River and Cheongmi Stream, in collaboration with Myongji University and KICT, South Korea, 2009-10.
- Analysis of the sedimentation of the Lower Nakdong River near the Nakdong River Estuary Barrage, in collaboration with PNU and KOWACO/K-Water, 2002-10.
- Sedimentation Analysis of Chicha and Sumbay Dams, Peru, for MWH, 2010.
- Expertise on riprap design at the bridgewater powerhouse for the Shaw Group, 2010.
- River Management Manual, in collaboration with DNA for the Department of Irrigation and Drainage (JPS), Kuala Lumpur, Malaysia, 2008-09, 612 p.
- Hydraulic Analysis for the Restoration of Cheongmi Stream, in collaboration with Myongji University and KICT, South Korea, 2008-09.
- Analysis of the Particle Size Distribution of the Gila River for Stantec, Phoenix, Arizona, 2009.
- Review of the Raritan Dam Removal Project for MWH, Denver, 2009.
- Review of the Marlin Dam Break Modeling of Liquefied Mine Tailings, for MWH, Denver, 2008-09.
- Sediment Analysis Report - Four Mile Canyon Creek Downstream of 30<sup>th</sup> Street, analysis with Moser and Associates for the UDFCD and the City of Boulder, CO, 2008-09.

- Analysis of the Design Options of the Flood Mitigation Plan for Muda River, Malaysia, for DID and USM-REDAC, 2006.
- Analysis of the sedimentation and watershed modeling of the Imha Reservoir, for KOWACO, 2005-06.
- Analysis of the retrofitting of bridge piers against scour for the Gupo and subway bridges on the Lower Nakdong River, South Korea, with Pusan National University, 2006.
- Analysis of Bendway Weirs for the Engineering Research and Development Center, Vicksburg, Mississippi, 2001-04.
- Analysis of sediment transport at the Arroyo Pasajero for the California Department of Water Resources, Sacramento, 2001-03.
- Analysis of the San Acacia Diversion Dam as related to the passage of the Silvery Minnow, for the U.S. Bureau of Reclamation, Albuquerque, 2001-03.
- Analysis of metal transport in streams from mining wastes for the EPA Hazardous Substance Research Center, 2001-03.
- Analysis of the changes in resistance to flow of the Rhine River during floods, for Delft Hydraulics and the Rijkswaterstaat, The Netherlands, 1999-00.
- Analysis of actinide migration at Rocky Flats, for Kaiser-Hill, 1998-99.
- Member of the Academic Review Team for the Analysis of sediment transport near Old Mississippi River Control, Lower Mississippi River, for Louisiana Hydroelectric and the U.S. Army Corps of Engineers, 1997-99.
- Review of Uranium Mill Tailings at L-Bar, New Mexico, for the U.S. Nuclear Regulatory Commission, 1997-99.
- Analysis of contaminated sediment transport at an EPA superfund site on Whitewood Creek, South Dakota, for ISSI, 1998.
- Expert witness on the Jacinto River Flood in Texas, for the U.S. Department of Justice, 1998.
- Analysis and review of the canal intake and desilting works at the Aligidir Irrigation Project in Eritrea, for NRCE, 1997.
- Report review "Trinity River - Maintenance Flow Study" for the U.S. Fish and Wildlife Service, 1997-1998.
- Analysis of the changes in dune geometry of the Rhine River during floods, for Delft Hydraulics and the Rijkswaterstaat, The Netherlands, 1991-93.
- Pipeline sedimentation study, for Tubecon, Québec, Canada, 1988.
- Sedimentation Analysis of the Rivière-à-Mars, for the Université Laval, Canada, 1985.
- Sedimentation Analysis of the Molineros Reservoir, for Hydrotech, Québec, Canada, 1983-1984.
- Analysis of sediment transport in the St-Lawrence and its tributaries, for Hydrotech, Québec, Canada, 1977-1982.
- Several fish habitat studies in "La Mauricie" and on the Ste-Anne-des-Monts River for Hydrotech, Québec, Canada, 1974-1982.

- Hydraulic and sediment studies on the impact of iron mining on the rivers Carheil, aux Pekans and Moisie for Hydrotech, Québec, Canada, 1976.
- Impact of breached copper tailing ponds on mountain streams for Hydrotech, Québec, Canada, 1976.
- Hydraulic and sediment study of the Matamec River. The project involved in collaboration with biologists in the study of suitable fish habitat for Atlantic Salmon, for Centreau, Québec, Canada, 1974-79.

## **LABORATORY RESEARCH**

- Particle velocity measurements on steep rough slopes, 1996-1998.
- Bedload particle velocity measurements on smooth and rough dry surfaces, 1993-1997.
- Experiments on upper-regime plane bed, 1992-1993.
- Experiments on the geometry of small dunes, 1988-1991.
- Small scale experiments on the lateral migration of alluvial channels, 1988-1991.
- Large-scale experiments on scour below grade-control structures, 1986-1990.
- Experimental measurements of velocity profiles and scour development around bridge piers, 1986-1990.
- Laboratory measurement of the rheological properties of mud flows, 1985-1986.
- Laboratory measurements of shear stress from single raindrops impacting sheet flow, 1986-1990.
- Experiments on lamination and stratification of sand mixtures, 1986-1993.
- Small-scale laboratory experiments on headcut migration and development of rills on different soils, 1988-1991.
- Studies on the mechanics of the erosion processes downstream of grade-control structures, 1985-1992.
- Laboratory measurement of sediment concentration profiles in a Rankine combined vortex, 1984-1986.
- Experimental research on the stability of laminar sheet flow and the formation of roll waves, 1983-1986.
- Design and calibration of three small-scale hydraulic models to improve the laboratory facilities at Laval University, 1979-1980.
- Assistant to Prof. Frenette on physical modeling of salt intrusion in a degenerated estuary at the Hydraulics Laboratory at Laval University, 1976-1977.

## COMPUTER MODELING

- Development of the [Model TREX](#) for the simulation of contaminant transport at the watershed scale with applications at the EPA Superfund Site at California Gulch, Colorado, for the EPA Hazardous Substance Research Center and the Center for Geosciences, and applications at Naesung stream South Korea +several watershed in Malaysia since 2001.
- Recent soil erosion studies using the dynamic model [CASC2D-SED](#) with GIS applications to watersheds including California Gulch, Colorado and Goodwin Creek, Mississippi, since 1995.
- Graphical analysis of surface runoff and sediment transport of Naesung Stream using TREX, with HydroQual, New Jersey, since 2010.
- Development of the model CASC2D for the simulation of two-dimensional surface runoff from spatially-distributed rainfall on complex watersheds. The hydrologic model is coupled with GIS tools and raingages or S-Band polarized dual-Doppler rainfall rates for the simulation of surface runoff on arid areas, since 1990.
- The model CASC2D has been calibrated on Macks Creek in Idaho, Goodwin Creek in Mississippi and has been used for simulations on Taylor Arroyo, Colorado, Hickahala-Senatobia, Mississippi, and Salzbach in Switzerland. The model CASC2D has been integrated in the Watershed Modeling System WMS of the U.S. Army Corps of Engineers at the Waterways Experiment Station, since 1989.
- The analysis of large concentrations of sands in suspension using the diffusion-dispersion models, since 1985.
- The analysis of the rheology of mud flows and debris flows using the quadratic model resulted in the development of the two-dimensional mud flow routing model FLO-2D by Dr. O'Brien, since 1983.
- Analysis of soil erosion for actinide migration using WEPP, 1998-00.
- Analysis of rain gage and radar data for moving rainstorms led to the development of Eulerian and Lagrangian correlation techniques, 1986-92.
- The effects of moving rainstorms on peak surface runoff has been studied using the models CASC and FEM1U developed at CSU, 1988-1989.
- Applications of soil erosion models including LAVSED and RUSLE on watersheds under different climates namely on the Chaudière watershed in Canada and the Conca de Tresp watershed in Spain, 1986-1989.
- Development of the soil erosion model LAVSED for the simulation of sediment transport from snowmelt runoff on large northern streams, 1977-1983.

## Ph.D. STUDENT ADVISEES (P. Julien as major professor)

	<b><i>Name</i></b>	<b><i>Dissertation Topic</i></b>	<b><i>Degree</i></b>	<b><i>Graduation</i></b>
1.	A. Dawod	Rainfall erosion	Ph.D.	Summer '86
2.	J.S. O'Brien	Rheology of mudflows	Ph.D.	Summer '86
3.	N. Bormann	Drop structures scour	Ph.D.	Summer '88
4.	J. Richardson	Moving rainstorms	Ph.D.	Summer '89
5.	D. Hartley	Raindrop impact	Ph.D.	Spring '90
6.	O. Stein	Rills and headcut	Ph.D.	Summer '90
7.	Y. Lan	River meandering	Ph.D.	Fall '90
8.	G. Choi	Channel networks	Ph.D.	Fall '90
9.	K. Marcus	Finite element runoff	Ph.D.	Spring '91
10.	F. Ogden	Radar hydrology	Ph.D.	Spring '92
11.	B. Saghafian	2-D runoff modeling	Ph.D.	Spring '92
12.	W. Doe	Terrain modeling	Ph.D.	Summer '92
13.	J. Wargadalam	Regime equations	Ph.D.	Spring '93
14.	D. May	Lagrangian rainstorms	Ph.D.	Fall '93
15.	Y. Raslan	Bed form mechanics	Ph.D.	Spring '94
16.	D. Williams	Sediment transport	Ph.D.	Fall '95
17.	D. Molnar (Noss)	<a href="#">Mesoscale runoff</a>	<a href="#">Ph.D.</a>	Spring '97
18.	B. Johnson	<a href="#">CASC2D-SED</a>	<a href="#">Ph.D.</a>	Spring '97
19.	J. Guo	<a href="#">Wake flow functions</a>	<a href="#">Ph.D.</a>	Summer '98
20.	J. Jorgeson	<a href="#">Flash floods</a>	<a href="#">Ph.D.</a>	Summer '99
21.	A. Sharma	<a href="#">Subsurface modeling</a>	<a href="#">Ph.D.</a>	Spring '00
22.	G. Richard	<a href="#">Channel morphology</a>	<a href="#">Ph.D.</a>	Spring '01
23.	R. Rojas	<a href="#">Upland erosion</a>	<a href="#">Ph.D.</a>	Summer '02
24.	S. Akalin	<a href="#">Mississippi transport</a>	<a href="#">Ph.D.</a>	Summer '02
25.	B. Bounvilay	<a href="#">Bedload velocity</a>	<a href="#">Ph.D.</a>	Fall '02
26.	C. Leon	<a href="#">Rio Grande modeling</a>	<a href="#">Ph.D.</a>	Spring '03
27.	B. Kane	<a href="#">Specific degradation</a>	<a href="#">Ph.D.</a>	Summer '03
28.	M. Velleux	<a href="#">Fate and transport</a>	<a href="#">Ph.D.</a>	Fall '05
29.	J. England	<a href="#">PMF modeling</a>	<a href="#">Ph.D.</a>	Spring '06
30.	U. Ji	<a href="#">Sediment flushing</a>	<a href="#">Ph.D.</a>	Fall '06
31.	Y.H. Shin	<a href="#">Flow pulses</a>	<a href="#">Ph.D.</a>	Fall '07
32.	S. Shah-Fairbank	<a href="#">Modified Einstein</a>	<a href="#">Ph.D.</a>	Fall '08
33.	S.D. An	<a href="#">Density currents</a>	<a href="#">Ph.D.</a>	Fall '11
34.	J. Halgren	<a href="#">Watershed modeling</a>	<a href="#">Ph.D.</a>	Fall '12
35.	J.H. Kim	<a href="#">Debris flow mapping</a>	<a href="#">Ph.D.</a>	Fall '12
36.	J. Abdullah	<a href="#">Tropical Floods</a>	<a href="#">Ph.D.</a>	Summer '13
37.	S. Nur Muhammad	<a href="#">Monsoon rainfall</a>	<a href="#">Ph.D.</a>	Fall '13
38.	K. Park	<a href="#">Sediment Plugs</a>	<a href="#">Ph.D.</a>	Fall '13
39.	H.Y. Kim	<a href="#">Dredging Management</a>	<a href="#">Ph.D.</a>	Summer '16
40.	P. O'Brien	<a href="#">Climate change</a>	<a href="#">Ph.D.</a>	Fall '17
41.	M. Palu	<a href="#">Dam break flooding</a>	<a href="#">Ph.D.</a>	Spring '19

42.	C.Y. Yang	<a href="#">Sediment yield</a>	<a href="#">Ph.D.</a>	Spring '19
43.	W. Kang	<a href="#">Ungauged watersheds</a>	<a href="#">Ph.D.</a>	Spring '19
44.	N. Andika	<a href="#">Mud volcanoes</a>	<a href="#">Ph.D.</a>	Spring '21

### **Invited External Ph.D. Degree Examiner**

- Hamid Shamloo, Ph.D., University of Alberta, Canada, 1996.
- Kerry Mazurek, Ph.D., University of Alberta, Canada, 2001.
- Manoj K. Jain, Ph.D., University of Roorkee, India, 2002.
- Faheem Sadeque, Ph.D., University of Alberta, Canada, 2007.
- Juan J.M. Monsalve, Ph.D., Univ. Politecnica de Valencia, Spain, 2008.
- Caroline Le Bouteiller, Ph.D. U. Joseph Fourier, Grenoble, France, 2011.
- Amir Azimi, Ph.D., University of Alberta, Canada, 2012.
- Sunil P. Maske Ph.D., IIT Roorkee, India, 2013.
- Luke Javernick Ph.D., University of Canterbury, New Zealand, 2013.
- Zaid Rauf Ph.D., University of Peshawar, Pakistan, 2023.

### **Visiting Professors and Post-docs working with Dr. Julien at CSU**

- Prof. M. Gonzalez del Tanago, University Politecnidad de Madrid, Spain.
- Prof. Shinji Egashira, Ritsumeikan University, Japan.
- Prof. Shigeru Kawai, Maizuru College of Technology, Japan.
- Prof. Jose Luis Lopez, Universidad Central de Venezuela, Venezuela.
- Prof. Sang Kil Park, Pusan National University, South Korea.
- Prof. Hyun Suk Shin, Pusan National University, South Korea.
- Prof. Suk Hwan Jang, Daejin University, South Korea.
- Vice-Pres. Prof. Chao Liu, Yangzhou Univ., China.
- Prof. Sang Ho Kim, Sangji University, South Korea.
- Prof. Charlie Schlinger, Northern Arizona University, AZ.
- Prof. Kyewon Jun, Kangwon University, South Korea.
- Prof. Hojin Lee, National Chungbuk University, South Korea.
- Prof. Jong Seok Lee, Hanbat University, South Korea.
- Prof. Rob Ettema, University of Wyoming.
- Dr. Jai Hong Lee, Hanyang University, South Korea.
- Prof. Jose Batista Anderson, State University of Campinas, Brazil.
- Dr. Seongjoon Byeon, Incheon University, South Korea.
- Prof. Joonhak Lee, Korean Military Academy, South Korea.
- Dr. Lingyun Li, Tsinghua University, China.
- Dr. Eunkyung Jang, KICT, South Korea.
- Prof. Xudong Chen, Zhengzhou Univ. China.
- Dr. Luis Castro, Univ. Natl. Ingenieria (UNI), Lima Peru.
- Dr. Alisher Khazratov, visiting scholar, Uzbekistan.

## M.S. STUDENT ADVISEES of P.Y. Julien

### Masters of Sciences (Plan A) - with thesis

	<u>Name</u>	<u>Thesis Topic</u>	<u>Degree</u>	<u>Graduation</u>
1.	T. Cline	Auto-CAD and HEC-1	M.S.	June '88
2.	G. Moglen	Distributed overland flow	M.S.	June '89
3.	C. Santoro	Scour around bridge piers	M.S.	July '89
4.	Y. Raslan	Properties of bed forms	M.S.	Dec. '90
5.	C. Meier	Bedload particle velocity	M.S.	Fall '95
6.	K. Klimek	Particle velocity on rough plates	M.S.	Fall '97
7.	C. Leon	<a href="#">Hydraulic geometry of Rio Grande</a>	<a href="#">M.S.</a>	Sum '98
8.	T. Bauer	<a href="#">Rio Grande hydraulic geometry</a>	<a href="#">M.S.</a>	Sum '99
9.	H. Hussain	Mudflow velocities	M.S.	Sum '99
10.	J. Spah	Large scale runoff modeling	M.S.	Fall '99
11.	L. Tysdal	Actinide migration	M.S.	Fall '99
12.	M. Weinhold	<a href="#">Gravel-bed transport</a>	<a href="#">M.S.</a>	July '01
13.	M. Sixta	<a href="#">Rio Grande migration</a>	<a href="#">M.S.</a>	Spring '04
14.	J. Albert	<a href="#">Double Mass Curves</a>	<a href="#">M.S.</a>	Fall '04
15.	D. Kang	<a href="#">Snowmelt modeling</a>	<a href="#">M.S.</a>	Fall '05
16.	S. Shah	<a href="#">Modified Einstein</a>	<a href="#">M.S.</a>	Fall '05
17.	S. Novak	<a href="#">Rio Grande</a>	<a href="#">M.S.</a>	Spring '06
18.	H.S. Kim	<a href="#">Upland Erosion</a>	<a href="#">M.S.</a>	Spring '06
19.	A. Larsen	<a href="#">Rio Grande-Escondida</a>	<a href="#">M.S.</a>	Spring '07
20.	N. Friesen	<a href="#">Supercritical waves</a>	<a href="#">M.S.</a>	Spring '07
21.	S.H. Teh,	<a href="#">RES, Akureyri, Iceland</a>	<a href="#">M.S.</a>	May '11
22.	T. Owen	<a href="#">Rio Grande - Elephant Butte</a>	<a href="#">M.S.</a>	Spring '12
23.	S. Sahaar	<a href="#">Erosion mapping in Afghanistan</a>	<a href="#">M.S.</a>	Fall '13
24.	A. Steininger	<a href="#">Modeling dam overtoping</a>	<a href="#">M.S.</a>	Spring '14
25.	P. Ndolo Goy	<a href="#">Turbidity modeling</a>	<a href="#">M.S.</a>	Spring '15
26.	C. Fogarty	<a href="#">Silvery Minnow habitat</a>	<a href="#">M.S.</a>	Fall '20

### Masters of Sciences (Plan B) - without thesis

1.	A. Eimer	Upland erosion	M.S.	May '87
2.	D. Hoelzer	Watershed modeling	M.S.	May '87
3.	C. Azuero	Particle stability	M.S.	July '87
4.	B. Saghafian	Resistance to flow	M.S.	July '88
5.	J. Wargadalam	Hydraulic geometry	M.S.	March '89
6.	Y. Chen	Sediment transport	M.S.	March '89
7.	M. Tauzer	Watershed modeling	M.S.	Sum '95
8.	S. Akalin	Temperature effects	M.S.	Spring '97
9.	R. Krehbiel	Gravel mining	M.S.	Spring '97
10.	T. Dahl (co)	Sedimentation	M.S.	Spring '98
11.	A. Mendelsberg	<a href="#">Cohesive sediment transport</a>	<a href="#">M.S.</a>	Fall '03

12.	J. Duncan	<a href="#">Bendway weirs</a>	<a href="#">M.S.</a>	Fall '03
13.	F. Jay	<a href="#">Modified Einstein</a>	<a href="#">M.S.</a>	Spring '05
14.	C. Vensel	<a href="#">Mississippi River</a>	<a href="#">M.S.</a>	Fall '05
15.	C. Michalos	Tailing remediation	M.S.	Spring '09
16.	A. Shafie	<a href="#">Flood control</a>	<a href="#">M.S.</a>	Fall '09
17.	T. Bender	<a href="#">Bosque flooding</a>	<a href="#">M.S.</a>	Fall '11
18.	K. Cooper	<a href="#">Soil erodibility</a>	<a href="#">M.S.</a>	Spring '12
19.	C. Shrimpton	<a href="#">Sediment plug hypotheses</a>	<a href="#">M.S.</a>	Fall '12
20.	J. Rainwater	<a href="#">Rio Grande Sediment Plugs</a>	<a href="#">M.S.</a>	Spring '14
21.	O. Martyusheva	<a href="#">Smart water grids</a>	<a href="#">M.S.</a>	Fall '14
22.	N. Koutsunis	<a href="#">Climate Changes and Dams</a>	<a href="#">M.S.</a>	Fall '15
23.	A. Orechwa	<a href="#">Actinide Mine Tailings</a>	<a href="#">M.S.</a>	Fall '15
24.	K. Lai	<a href="#">Smart tunnel outlet</a>	<a href="#">M.S.</a>	Spring '16
25.	C. Horner	<a href="#">Silvery Minnows</a>	<a href="#">M.S.</a>	Fall '16
26.	K. Laforge	<a href="#">Rio Puerco Reach</a>	<a href="#">M.S.</a>	Fall '18
27.	S. Cundiff	<a href="#">Subsiding Channels</a>	<a href="#">M.S.</a>	Spring '19
28.	S. Doidge	<a href="#">San Acacia Reach</a>	<a href="#">M.S.</a>	Fall '19
29.	T. Beckwith	<a href="#">Escondida Reach</a>	<a href="#">M.S.</a>	Fall '20
30.	J. Sperry	<a href="#">Elephant Butte Reach</a>	<a href="#">M.S.</a>	Spring '21
31.	A. Schied	<a href="#">Bosque Reach</a>	<a href="#">M.S.</a>	Spring '22
32.	C. Radobenko	<a href="#">Bernalillo Reach</a>	<a href="#">M.S.</a>	Fall '22
33.	T. Anderson	<a href="#">Montano Reach</a>	<a href="#">M.S.</a>	Spring '23
34.	B. Corsi	<a href="#">Angostura Reach</a>	<a href="#">M.S.</a>	Spring '24

### **MASTERS of ENGINEERING ADVISEES of P.Y. Julien**

#### **Masters of Engineering (Plan C)**

1.	L. Babbitt	M. Eng.	Fall '05
2.	T. Randall	M. Eng.	Spring '06
3.	A. Gingerich	M. Eng.	Spring '06
4.	A. Leblanc	M. Eng.	Spring '07
5.	L. Shawcross	M. Eng.	Spring '08
6.	S. Parker	M. Eng.	Spring '08
7.	D. Oliphant	M. Eng.	Fall '08
8.	B. Mulligan	M. Eng.	Fall '09
9.	B. Bamford	M. Eng.	Spring '10
10.	K. Lockhart	M. Eng.	Fall '10
11.	C. Welken	M. Eng.	Fall '10
12.	J. Quebbeman	M. Eng.	Spring '11
13.	G. Hastings	M. Eng.	Spring '11
14.	M. McGovern	M. Eng.	Spring '11
15.	J. Barker	M. Eng.	Fall '11
16.	R. Conrad	M. Eng.	Fall '11
17.	C. Melgar	M. Eng.	Fall '11

18.	S. Prins	M. Eng.	Fall '11
19.	K. Brom	M. Eng.	Spring '12
20.	S. Kim	M. Eng.	Spring '12
21.	H. Miller	M. Eng.	Summ '12
22.	J. Adams	M. Eng.	Fall '12
23.	S. Hall	M. Eng.	Spring '13
24.	R. Moore	M. Eng.	Spring '13
25.	M. Seering	M. Eng.	Spring '13
26.	M. Smith	M. Eng.	Spring '13
27.	M. Agnaou	M. Eng.	Summ '13
28.	K.M. Hassan	M. Eng.	Fall '13
29.	J. Biller	M. Eng.	Fall '13
30.	N. Zink	M. Eng.	Fall '13
31.	C. Hammack	M. Eng.	Fall '13
32.	M. McCollough	M. Eng.	Fall '13
33.	H. Yaryan-Hall	M. Eng.	Fall '13
34.	M. Blair	M. Eng.	Spring '14
35.	R. Graham	M. Eng.	Spring '14
36.	J. Lynn	M. Eng.	Spring '14
37.	K. Rasmussen	M. Eng.	Spring '14
38.	M. Swanson	M. Eng.	Spring '14
39.	C. Mc Laughlin	M.Eng.	Spring '14
40.	C. Kurtz	M.Eng.	Fall '14
41.	J. McKinley	M.Eng.	Fall '14
42.	M. Peacock	M.Eng.	Fall '14
43.	C. Valencia	M.Eng.	Fall '14
44.	A. Blackwell	M.Eng.	Spring '15
45.	D. Bailey	M.Eng.	Spring '15
46.	M. Wilsnack	M.Eng.	Spring '15
47.	K. Dembia (Ober)	M.Eng.	Summ '15
48.	A. Sabatino	M.Eng.	Fall '15
49.	K. Kubista	M. Eng.	Spring '16
50.	B. Rufenacht III	M.Eng.	Spring '16
51.	T. Kostrubala	M.Eng.	Spring '16
52.	J. Weber	M.Eng.	Fall '16
53.	S. DeGroot	M.Eng.	Fall '16
54.	A. Morrison	M.Eng.	Fall '16
55.	C. Haley	M. Eng.	Spring '17
56.	P.J. Fischer	M. Eng.	Fall '17
57.	E. McNary	M. Eng.	Fall '17
58.	G.T. Turner	M. Eng.	Fall '17
59.	M. Brennan	M. Eng.	Spring '18
60.	R. Feldman	M. Eng.	Spring '18
61.	K. Lowthian	M. Eng.	Spring '18

62.	C. Peterson	M. Eng.	Spring '18
63.	E. Valenzuela	M. Eng.	Spring '18
64.	J. Snyder	M. Eng.	Fall '18
65.	S. White	M.Eng.	Spring '19
66.	D. Edwards	M.Eng.	Spring '19
67.	O. Osoro	M.Eng.	Fall '20
68.	P. Whitfield	M.Eng.	May 21
69.	D. Beal	M. Eng.	May '22
70.	N. Wetzel	M. Eng.	May '23
71.	S. Means	M. Eng.	May '23

### **Other advisees at CSU**

External committee membership for 130 additional CSU graduate students.

- Marielle Remillard, REU Summer 2007
- Kevin Hanegan, REU Summer 2008
- Quentin Benally, McNair/AGEP Summer 2008
- Anna Paris, Italy 2008-09
- Katharine Anderson, CSU 2009 (REU) & 2011(GRA)
- Michelle Ida, Malaysia 2011 (UiTM )
- Duangrudee Kositgittiwong, 2008 (Ph.D. at KMUTT in 2012)
- Ladislav Rousar, Czech Republic Fall 2013 (Ph.D. in 2016)
- Christoph Matzke, Austria Fall 2014 (Ph.D. in Austria, 2015)
- George Gonçalves, Brazil Summer 2015
- Ian Stockdill, CSU Undergrad. Honors Thesis, 2018
- Jesseri Jensen, CSU Undergrad. Honors Fall 2018

# PUBLICATIONS

## M.Sc. THESIS and Ph.D. DISSERTATION

1. Julien, P.Y. *Erosion de bassin et apport solide en suspension dans les cours d'eau nordiques*, M.Sc. Thesis, Département de Génie Civil, Université Laval, Québec, Canada, September 1979, 186 p.  
(Advisor: Marcel Frenette)
2. Julien, P.Y. *Prédiction d'apport solide pluvial et nival dans les cours d'eau nordiques à partir du ruissellement superficiel*, Ph.D. dissertation, Département de Génie Civil, Université Laval, Québec, Canada, February 1983, 240 p. (Advisor: Marcel Frenette)

## TEXTBOOKS

- 1a. Julien, P.Y., ***Erosion and Sedimentation***, [Cambridge University Press](#), QE571.J85, ISBN 0-521-44237-0 Hardback in 1995, and ISBN0-521-63639-6 Paperback in 1998, 280p.  
Review by R.L. Soulsby, J. Fluid Mechanics, Vol. 304, 1995, pp. 373-6.  
Review by D. Walling, J. Hydrol. Sciences, 41(4), 1996, pp. 651-2.  
Review by C. Kendall, The Leading Edge, May 1996.  
Review by B. Gomez, Progress in Physical Geography, 20(2), 1996.  
Review by I.W. Drummond, OUGS Journal, 17(1), 1996.  
Review by W. R. White, World Meteorological Org., 45(2), 1996.  
Review by G. Govers, Het Ingenieursblad, 66(3), 1997.  
Review by A. Borgia, J. Pure Appl. Geophys., Vol. 149, 1997, pp. 814-5.  
Review by W. Graf, J. of Hydr. Eng., ASCE, May 1999, pp. 554-5.  
Review by J. Nelson, American Geophysical Union, EOS, April 13, 1999.  
Review by H.M. Pantin, J. Sed. Res., 68(3), May 1998, pp. 519-20.  
Review by J. Woodside, The leading Edge, April 1999, p. 520.  
Review by J. Berlamont, Het Ingenieursblad, 5, May, 2000 (in Dutch)  
Review by N.J. Clifford, progress in Physical Geography, 24(2), 2000.  
Review by G. Nichols, Geological Magazine, 2001.
- Solution Manual: Guo, J.J., and P.Y. Julien, [Solution Manual for Erosion and Sedimentation](#), Report manuscript, January 1999, 114 p.  
<http://myweb.unomaha.edu/~junkeguo/Solutions%20Manual%20of%20Erosion%20and%20Sedimentation.pdf>

1b. Julien, P.Y., ***Erosion and Sedimentation, 2<sup>nd</sup> Edition***, [Cambridge University Press](#), QE571,J85 2010, ISBN 978-0-521-83038-6 Hardback and ISBN 978-0-521-53737-7 Paperback June 2010, 371p.

Review by W.H. Hager and V. Weitbrecht, IAHR-JHR, Vol. No. 2010?

2a. Julien, P.Y., ***River Mechanics***, 2002, [Cambridge University Press](#), TC405.J85, ISBN 0-521-56284-8 Hardback in 2002, and ISBN 0-521-52970-0 Paperback in 2002, 434p.

<http://www.cup.org/titles/catalogue.asp?isbn=0521529700>

Review by Z. Demirbilek, Journal of Waterway, Port, Coastal and Ocean Engineering, ASCE, Sept-Oct. 2003, p.241.

Review by R. Walton and D.T. Williams, Journal of Waterway, Port, Coastal and Ocean Engineering, ASCE, Sept-Oct. 2003, p.241-2.

Review by A. M. da Silva, Journal of Hydraulic Engineering, ASCE, Nov. 2003, pp. 923-4.

Review by H.W. Shen, Journal of Hydraulic Engineering, ASCE, April 2004, pp. 377-8.

2b. Julien, P.Y., ***River Mechanics, 2<sup>nd</sup> Edition***, 2018, [Cambridge University Press](#), TC405. J85 2018, ISBN 978-1-107-46277-9 paperback and DOI: 10.1017/9781316107072 April 2018, 499p.

Back cover reviews by Robert Ettema, Mark Velleux, Willi Hager and Vladimir Nikora, ASCE Journal of Waterway, Port, Coastal and Ocean Engineering, and the ASCE Journal of Hydraulic Engineering.

3. Julien, P.Y., ***Essentials of Hydraulics***, 2022, [Cambridge Univ. Press](#), DOI: 10.1017/9781108907446, ISBN 978-1-316-51309-5 Hardback in 2022, and ISBN 978-1-108-81630-4 Paperback in 2022, 341p.

Back cover reviews by Robert Ettema, Ming Ye, Paola Passalacqua and Panagiotis Scarlatos.

<https://www.cambridge.org/highereducation/books/essentials-of-hydraulics/DC26D0EE2E1F00E4A02A3EAC8AE30192#overview>

## ENGINEERING LECTURE MATERIAL

1. Richardson, E.V., D.B. Simons and P.Y. Julien. "*Highways in the River Environment*", Training and Design Manual for the U.S. Dept. of Transportation, Federal Highway Administration. Publication No. [FHWA-HI-90-016](#), February 1990.

2. Julien, P.Y. "*Erosion and Sedimentation*", Teaching Guide for CE-716 Erosion and Sedimentation, Colorado State University, August 1987 (7 Chapters, 139p.), revised in 1992 (Part I, Chapters 1-6, 147p.; Part

- II, Chapters 7-12, 177p.).
3. O'Brien, J.S. and P.Y. Julien, "*Mud and Debris Flow Modeling using FLO-2D*", Lecture notes for a CSU Short Course presented in San Francisco, CA, August 5-6, 1997.
  4. O'Brien, J.S., P.Y. Julien and V.M. Ponce, "*Flood Hazard Simulation*", Lecture Notes for a CSU short course presented at the Cliff Lodge, Snowbird Utah, October 5-7, 1998.
  5. Guo, J.J., and P.Y. Julien, "[Solution Manual for Erosion and Sedimentation](#)", Department of Civil Engineering, Colorado State University, January 1999, 114 p.
  6. Johnson, T., S.R. Abt, C.L. Thornton and P.Y. Julien, "*Design of Erosion Protection for Long-term Stabilization*", Manual [NUREG-1623](#), Nuclear Regulatory Commission, Washington, D.C., 1999, 24p.+ 6 Appendices.
  7. Julien, P.Y., "*Teaching Manual for CE-717 River Mechanics*", Colorado State University, January, 1999, 386p. Revised in 2001, 800 p.
  8. Julien, P.Y. and S. Ikeda, Three-day Short Course on "River Engineering and Stream Restoration", [Day I](#) [Day IIa](#) [Day IIb](#) and [Day IIc](#), at the 4<sup>th</sup> International Symposium on Environmental Hydraulics, Hong Kong, Dec. 2004.
  9. Julien, P.Y., Three-day "River Rehabilitation Seminar - River M-1", organized by REDAC, [Day I](#) [Day II](#), Universiti Sains Malaysia, in collaboration with DID and Wira Kerjaya Sdn.Bhd., Penang, Malaysia, May 2005.
  10. Julien, P.Y., Three-day Short Course on River Engineering and Stream Rehabilitation, [Day 1](#) [Day 2](#) [Day 3](#), organized by the Key State Laboratory, College of Water Resources and Hydropower, Wuhan University, Wuhan, China, Sept. 19-21, 2005.
  11. Julien, P.Y. and M. Velleux, in collaboration with S.C. Shah and J. Halgren, "TREX Training Seminar" Notes for the short course on TREX., CSU and Hydroqual, Fort Collins, Colorado, June 24-28, 2006.
  12. Julien, P.Y., "*Waterfront Urban Development and Disaster Countermeasures in the USA*", [Presentation slides](#) prepared in collaboration with Dr. S.K. Park, Department of Civil Engineering, Pusan National University, Pusan, South Korea, April 27, 2006, 20p.
  13. Julien, P.Y., "*River Protection & Watershed Modeling, Short Course Presentation Slides*", for four Invited Lectures: [watersheds](#), [riverbank](#), [river engineering](#); [bifurcations](#), prepared in collaboration with Dr. Junaidah Ariffin, Faculty of Civil Engineering, Universiti Teknologi MARA, Shah Alam, Selangor, Malaysia, May 2006, 71p.
  14. Julien, P.Y., "*Sedimentation in Dams and Reservoirs: Problems and Solutions*", Short Course Presentation Slides for four Invited Lectures: (1) [Theory and Practice](#); (2) [Impact](#); (3) [Modeling](#); and (4) [Solutions](#), prepared in collaboration with Dr. Lariyah Mohd. Sidek, Head, Department of Civil Engineering, Universiti Tenaga Nasional, Selangor, Malaysia, July 20-21, 2006, 97p.

15. Julien, P.Y. "A Study of River Restoration and Conservation, and of Precaution against Reservoir Calamity" (2/4), Lecture Notes for Sediment Transport, Density Currents in Reservoirs and Ecosystems, Short Course, A Cooperation Project between Taiwan and US, Water Resources Planning Institute, Water Resources Agency, Taichung, Taiwan, October 24, 2006, 83p.
16. Julien, P.Y. "Lecture Material for a Two-day Short Course on the topics (1) Erosion and Sedimentation, (2) Reservoir Sedimentation, (3) Upland Erosion Losses, and (4) River Engineering." [Yog1](#), [Yog2](#), [Yog3](#) and [Yog4](#), University Gadjah Mada, Yogyakarta, Indonesia, July 22-23, 2009, 83p.
17. Julien, P.Y. as International Expert Reviewer among many contributors, "Volume 2 - [River Management Manual](#)" Government of Malaysia, Department of Irrigation and Drainage, 2009, 612 p.
18. Julien, P.Y. Lecture Material for a 8 day full course on the topics of (1) Erosion and Sedimentation and (2) River Mechanics. Seminario Avanzado " *Metodología para Reforestar Rios Degradados por Actividades Humanas Usando tecnicas de Bioingenieria*" Modulo 1 " *Mecanica del Rio y Transporte de Sedimentos – Conceptos Claves para Rehabilitar Cursos de Agua y los Ecosistemas Fluviales*",  
 Day 1 [Sources and Yield](#)  
 Day 2 [Sediment Mechanics](#)  
 Day 3 [Sediment Transport](#)  
 Day 4 [Mudflows and Debris Flows](#)  
 Day 5 [River Geometry and Hydraulics](#)  
 Day 6 [River Meandering](#)  
 Day 7 [River Engineering and Modeling](#)  
 Day 8 [River Restoration](#)  
 Laboratorio Nacional de Hidraulica, Universidad Nacional de Ingenieria, Lima, Peru, January 4-14, 2016, 234p.
19. Julien, P.Y. Lecture material (slides) for the 6 hour short course: " *Stream Restoration and River Engineering – Key concepts to rehabilitate watercourses and fluvial ecosystems*",  
 Part 1 - [Stream Restoration](#)  
 Part 2 - [River Engineering](#)  
 Part 3 - [Climate Change](#)  
 Latin American IAHR Congress, Lima Peru, September 27, 2016.
20. Julien, P.Y. with the assistance of Joonhak Lee, Jai Hong Lee and Seongjoon Byeon, " *Hydraulic Engineering Additional Notes for the course CIVE 401*", in four parts: (1) Closed Conduits, (2) Hydromachinery, (3) Open channels, and (4) Hydraulic Structures, October 2017, 257p.
21. Julien, P.Y., " *Modeling and Management of Reservoir Sedimentation*", Four-hour short course for the Directorate General of Water Resources in Indonesia. Slides prepared as part of the Training for Technical

- Planning of Small Dams, [Part I](#), [Part II](#), Diponegoro University, Semarang, Indonesia, May 28, 2018.
22. Julien, P.Y., "Modeling and Management of Reservoir Sedimentation", Half-day short course at the International Conference on Dam Safety Management and Engineering for the Malaysia Committee on large Dams (MYCOLD), Wembley Hotel, Penang, Malaysia Nov. 21, 2019.
23. Julien, P.Y., 2-day short course at the Denver Federal Center – USBR - Technical Service Center January 18 and 19, 2024. Videos available at: [USBR - Short Course January 2024](#)

### BOOK CHAPTERS

1. Richardson, J.R. and P.Y. Julien, "One-Dimensional Modeling of Moving Rainstorms" in Catchment Runoff and Rational Formula, Edited by B.C. Yen, Water Resources Publications, 1991, pp. 155-167.
2. Williams, D.T., and P.Y. Julien, "Examination of Stage-Discharge Relationships of Compound/Composite channels," in Channel Flow Resistance: Centennial of Manning's Formula, Edited by B.C. Yen, Water Resources Publications, 1991, pp. 341-355.
3. Shen, H.W. and P.Y. Julien, "Erosion and Sediment Transport," Chap. 12 in the Handbook of Hydrology, Mc Graw-Hill, 1993, 61p.
4. Julien, P.Y., "Flash flood modeling of Macks Creek," Chap. 17.2 in Coping with Floods, Edited by G. Rossi et al., NATO ASI Series E: Applied Sciences, Vol. 257, Kluwer Academic Publishers, 1994, pp. 403-410.
5. Julien, P.Y., "Sand Particle Interaction in Moving Bed Layers," in Archiv fur Hydrobiologie - Advances in Limnology - Suspended Particulate Matter in Rivers and Estuaries, Vol. 47, 1996, pp. 415-420.
6. Julien, P.Y. and J.S. O'Brien, "Selected notes on debris flow dynamics, and Introduction to Chapter 2," in Recent Developments on Debris Flows, Lecture Notes in Earth Sciences, Edited by A. Armanini and M. Michiue, Springer Verlag, Vol. 64, 1997, pp. 65-69 and 144-162.
7. Ogden, F.L. and P.Y. Julien, "CASC2D; A Two-dimensional, Physically-based, Hortonian hydrologic model," Chapter 4 in Mathematical Models of Small Watershed Hydrology and Applications, Edited by V. Singh and D.K. Frevert, Water Resources Publications, 2002, pp. 69-112.
8. Julien. P.Y. and R. Eykholt, "Sedimentation and Centrifugation," in the Encyclopedia of Physics, Wiley-VCH Pub. Vol. 2., 2005, pp. 2357-61.
9. Julien, P.Y., "Fluvial Transport of Suspended Solids," Chapter 22 in the Encyclopedia for Inland Waters, Elsevier, Vol. 1, 2009, pp. 681-683.
10. Julien, P.Y., M.L. Velleux, U. Ji and J. Kim, "Upland Erosion Modeling", Chapter 15, in the Handbook of Environmental Engineering, Water Resources Engineering, Edited by L.K. Wang and R.S.H. Yang Springer Science+Business Media New York, 2014,

- DOI 10.1007/978-1-62703-595-8\_9, pp. 437-466.
11. Salas, J.D., G. Gavilan, F.R. Salas, P.Y. Julien and J. Abdullah. "Uncertainty of the PMP and PMF", Chapter 28 in the Handbook of Engineering Hydrology, Modeling Climate Changes and Variability, Taylor and Francis, 2014, pp. 575-603.
  12. Teh, S.H., Mohd Sidek, L., Julien, P.Y., and J. Luis "GIS-based Upland Erosion Mapping", Chap. 16 in Handbook of Engineering Hydrology, Modeling Climate Changes and Variability, Taylor and Francis, 2014, pp. 303-330. DOI: 10.1081/E-ENRW-120047597
  13. Julien, P.Y. and J. Halgren, "Hybrid Hydrologic Modeling", Chap. 17 in Handbook of Engineering Hydrology, Modeling Climate Changes and Variability, Taylor and Francis, 2014, pp. 331-352.
  14. Abdullah, J., Kim, J. and P.Y. Julien, "Hydrologic Modeling of Extreme Events," in the Encyclopedia of Natural Resources, Taylor and Francis, July 2014, 1086p. ISBN 9781439852583

## REFEREED PUBLICATIONS

### FULL PAPERS IN REFEREED JOURNALS

1. Frenette, M., M. Caron, P.Y. Julien, and R.J. Gibson. "Interaction between salmon parr population and discharge in the Matamec River," Canadian Journal of Fisheries and Aquatic Sciences, Vol. 41, No. 6, 1984, pp. 954-964.
2. Julien, P.Y. and D.B. Simons. "Sediment transport capacity of overland flow," Transactions of the ASAE, Vol. 28 (3), May-June 1985, pp.755-762. (ASAE Best Paper Award in 1986).
3. Thorne, C.R., L.W. Zevenbergen, J.E. Pitlick, S. Rais, J.B. Bradley and P.Y. Julien. "Direct measurements of secondary currents in a meandering sand-bed river," Nature, Vol. 315, June 1985, pp. 746-7.
4. Julien, P.Y. and M. Frenette. "Modeling of rainfall erosion," Journal of Hydraulic Engineering, ASCE, Oct. 1985, Vol. 111 (10), pp. 1344-59.
5. Julien, P.Y. and D.M. Hartley. "Formation of roll waves in laminar sheet flow," Journal of Hydraulic Research, IAHR, Vol. 24, No. 1, 1986, 5-17.
6. Frenette, M. and P.Y. Julien. "LAVSED I - A model for predicting suspended load in northern streams," Canadian Journal of Civil Engineering, CSCE, Vol. 13, No. 2, April 1986, pp. 150-161.
7. Julien, P.Y. and M. Frenette, "LAVSED II - A model for predicting suspended load in northern streams," Canadian Journal of Civil Engineering, CSCE, Vol. 13, No. 2, 1986, pp. 162-170.
8. Julien, P.Y. "Concentration of fine sediment particles in a vortex," Journal of Hydraulic Research, IAHR, Vol. 24, No. 4, 1986, pp. 255-264.

9. Frenette, M. and P.Y. Julien. "Computer modelling of soil erosion and sediment yield from large watersheds," [International Journal of Sediment Research](#), Vol. 1, 1987, pp. 39-68.
10. Julien, P.Y. and A.M. Dawod. "On predicting upland erosion losses from rainfall depth. 1. Probabilistic approach," [Stochastic Hydrology and Hydraulics Journal](#), Vol. 1, 1987, pp. 127-134.
11. Dawod, A.M. and P.Y. Julien. "On predicting upland erosion losses from rainfall depth. 2. Field applications in Iraq," [Stochastic Hydrology and Hydraulics Journal](#), Vol. 1, 1987, pp. 135-140.
12. Julien, P.Y. and M. Frenette. "Macroscale analysis of upland erosion," [Hydrological Sciences Journal](#), IAHS, Vol. 32, No. 3, 1987, 347-358.
13. O'Brien, J.S. and P.Y. Julien. "Laboratory analysis of mudflow properties," [Journal of Hydraulic Engineering](#), ASCE, Vol. 114 (8), August 1988, pp. 877- 887.
14. Woo, H.S., P.Y. Julien and E.V. Richardson. "Suspension of large concentrations of sands," [Journal of Hydraulic Engineering](#), ASCE, Vol. 114 (8), August 1988, pp. 888-898.
15. Cline, T. J., A. Molinas and P. Y. Julien. "An AutoCAD-based watershed information system for the Hydrologic model HEC-1," [Water Resources Bulletin](#), AWRA, Vol. 25, No.3, June 1989, pp. 641-652.
16. Julien, P.Y. and G.E. Moglen. "Similarity and length scale for spatially varied overland flow," [Water Resources Research](#), AGU, Vol. 26, No. 8, 1990, pp. 1819-1832.
17. Santoro, V.C., P.Y. Julien, E.V. Richardson, and S.R. Abt. "Velocity profiles and scour depth measurements around bridge piers," Proc. Annual Meeting, [Transportation Research Board](#), FHWA, paper # 910874, 1991.
18. Julien, P.Y. and Y.Q. Lan. "Rheology of hyperconcentrations," [Journal of Hydraulic Engineering](#), ASCE, Vol. 115, No.3, March 1991, pp. 346-353.
19. Bormann, N.E. and P.Y. Julien, "Scour downstream of grade-control structures," [Journal of Hydraulic Engineering](#), ASCE, Vol. 115, No.5, May 1991, pp. 579-594.
20. Julien, P.Y. and M. Gonzalez del Tanago, "Spatially-varied soil erosion under different climates," [Hydrologic Sciences Journal](#), IAHS, Vol. 36, No. 6, Dec. 1991, pp. 511-524.
21. Hartley, D.M. and P.Y. Julien. "Boundary shear stress induced by raindrop impact," [Journal of Hydraulic Research](#), IAHR, Vol. 30, No. 3, 1992, pp. 341-359.
22. Stein, O.R. and P.Y. Julien, "Criterion delineating the mode of headcut migration," [Journal of Hydraulic Engineering](#), ASCE, Vol. 119, No. 1, Jan. 1993, pp. 37-40.
23. O'Brien, J.S., P.Y. Julien and W.T. Fullerton, "Two-dimensional water flood and mudflow simulation," [Journal of Hydraulic Engineering](#), ASCE,

- Vol. 119, No. 2, Feb. 1993, pp. 244-261.
24. Ogden, F.L. and P.Y. Julien, "Runoff sensitivity to temporal and spatial rainfall variability at runoff plane and small basin scale," [Water Resources Research](#), AGU, Vol. 29, No. 8, 1993, pp. 2589-2597.
  25. Julien, P.Y., Y.Q. Lan and G. Berthault. "Experiments on stratification of heterogeneous sand mixtures," [Bulletin de la Société Géologique de France](#), Tome 164, No. 5, 1993, pp. 649-660.
  26. Stein, O.R., P.Y. Julien and C.V. Alonso, "Mechanics of rill scour," [Journal of Hydraulic Research](#), IAHR, Vol. 31, No. 6, 1993, pp. 723-738.
  27. Richardson, J.R. and P.Y. Julien, "Suitability of simplified overland flow equations," [Water Resources Research](#), AGU, Vol. 30, No. 3, 1994, pp. 665-671.
  28. Ogden, F.L., and P.Y. Julien, "Two-dimensional runoff sensitivity to radar resolution," [Journal of Hydrology](#), Vol. 128, Nos 1-2, June 1994, pp. 1-18.
  29. Stein, O.R., and P.Y. Julien, "Sediment concentration below a free overfall," [Journal of Hydraulic Engineering](#), ASCE, Vol. 120, No. 9, Sept. 1994, pp. 1043-1059.
  30. Julien, P.Y. and J. Wargadalam, "Alluvial channel geometry: theory and applications," [Journal of Hydraulic Engineering](#), ASCE, Vol. 121, No. 4, April 1995, pp. 312-325.
  31. Julien, P.Y., B. Saghafian and F.L. Ogden, "Raster-based hydrologic modeling of spatially-varied surface runoff," [Water Resources Bulletin](#), AWWA, Vol. 31, No. 3, 1995, pp. 523-536.
  32. Saghafian, B., P.Y. Julien and F.L. Ogden, "Similarity in catchment response: 1. Stationary rainstorms," [Water Resources Research](#), AGU, Vol. 31, No. 6, 1995, pp. 1533-1541.
  33. Ogden, F.L., J.R. Richardson, and P.Y. Julien, "Similarity in catchment response: 2. Moving rainstorms," [Water Resources Research](#), AGU, Vol. 31, No. 6, 1995, pp. 1543-1547.
  34. Julien, P.Y. and G.J. Klaassen, "Sand-dune geometry in flooded rivers," [Journal of Hydraulic Engineering](#), ASCE, Vol. 121, No. 9, 1995, pp. 657-663.
  35. Saghafian, B. and P.Y. Julien, "Time to equilibrium for spatially variable watersheds," [Journal of Hydrology](#), 172, 1995, pp. 231-245.
  36. Kawai, S. and P.Y. Julien, "Point bar deposits in narrow sharp bends," [Journal of Hydraulic Research](#), IAHR, Vol. 34, No. 2, 1996, pp. 205-218.
  37. Julien, P.Y., "Transforms for runoff and sediment transport," [Journal of Hydrologic Engineering](#), ASCE, Vol. 1, No. 3, 1996, pp. 114-122.
  38. Doe III, W, B. Saghafian, and P.Y. Julien, "Land-use impact on watershed response: the integration of two-dimensional hydrologic modelling and Geographic Information Systems," [Hydrological Processes Journal](#), Vol. 10, 1996, pp. 1503-1511.

39. Molnar, D.K. and P.Y. Julien, "Estimation of upland erosion using GIS," [Journal of Computers & Geosciences](#), Vol. 24, No. 2, 1998, 183-192.
40. Julien, P.Y., D.K. Molnar, B.E. Johnson and P.G. Combs, "Flood forecasting reaches new potential," [EOS](#), AGU, Vol. 79, No. 14, April 7, 1998 and electronic file at [http://www.agu.org/eos\\_elec/9727le.html](http://www.agu.org/eos_elec/9727le.html).
41. ASCE Task Committee on Hydraulics, "Bank Mechanics, and Modeling of River Width Adjustment, River width adjustment. I: Processes and mechanisms", [Journal of Hydraulic Engineering](#), ASCE, Vol. 124, No. 9, 1998, pp. 881-902.
42. ASCE Task Committee on Hydraulics, "Bank Mechanics, and Modeling of River Width Adjustment, River width adjustment. II: Modeling," [Journal of Hydraulic Engineering](#), ASCE, Vol. 124, No. 9, 1998, pp. 903-917.
43. May, D.R., and P.Y. Julien, "Eulerian and Lagrangian Correlation Structures of Convective Rainstorms," [Water Resources Research](#), AGU, Vol. 34, No. 10, 1998, pp. 2671-2683.
44. Julien, P.Y. and Y. Raslan, "Upper-regime Plane Bed," [Journal of Hydraulic Engineering](#), ASCE, Vol. 124, No. 11, November 1998, pp. 1086-1096.
45. Johnson, B.E., P.Y. Julien, D.K. Molnar and C.C. Watson, "The Two-dimensional Upland Erosion Model CASC2D-SED," [Journal of the American Water Resources Association](#), AWRA, Vol. 36, No. 1, February 2000, pp. 31-42.
46. Molnar, D.K. and P.Y. Julien, "Grid Size Effects on Surface Runoff Modeling," [Journal of Hydrologic Engineering](#), ASCE, Vol. 5, No. 1, 2000, pp. 8-16.
47. Guo, J. and P.Y. Julien, "Turbulent Velocity Profiles in Sediment-laden Flows", [Journal of Hydraulic Research](#)", IAHR, Vol. 39, No. 1, 2001, pp. 11-23.
48. Julien, P.Y. and D. Anthony, "Bedload Motion by Size Fractions in Meander Bends", [Journal of Hydraulic Research](#), IAHR, Vol. 40, No. 2, 2002, pp. 125-133.
49. Saghafian, B., P.Y. Julien, and H. Rajae, "Runoff Hydrograph Simulation Based on Time Variable Isochrone Technique", [Journal of Hydrology](#), 261, April 2002, pp. 193-203.
50. Julien, P.Y., G.J. Klaassen, W.T.M. ten Brinke and A.W.E. Wilbers, "Case Study: Bed Resistance of the Rhine River during the 1998 flood," [Journal of Hydraulic Engineering](#), ASCE, Vol. 128, No., 12, 2002, pp. 1042-1050.
51. Julien, P.Y. and Rojas, R., "Upland Erosion Modeling with CASC2D-SED," [International Journal of Sediment Research](#), Vol. 17, No. 4, 2002, pp. 265-274.
52. Guo, J. and P.Y. Julien, "Modified log-wake law for turbulent flow in smooth pipes", [Journal of Hydraulic Research](#), IAHR, Vol. 41, No. 5,

- 2003, pp. 493-501.
53. Richard, G.A. and Julien, P.Y., "Dam Impacts and Restoration on an Alluvial River – Rio Grande, New Mexico", [International Journal of Sediment Research](#), Vol. 18, No. 2, 2003, pp. 89-96.
  54. Lee, J.S. and P.Y. Julien, "Derivation of Downstream Hydraulic Geometry Equations for Alluvial Rivers", [Journal of the Korean Society of Civil Engineering](#), KSCE, Vol.23, No. 6B, 2003, pp. 551-559 (in Korean).
  55. Wu, B., A. Molinas and P.Y. Julien, "Bed-material Load Computations for Sediment Mixtures", [Journal of Hydraulic Engineering](#), ASCE, Vol.130 No.10, 2004, pp. 1002-1012.
  56. Guo, J. and P.Y. Julien, "Boundary shear stress in smooth rectangular open channels", [Journal of Hydraulic Engineering](#), ASCE, Vol. 131 No. 1, 2005, pp. 30-37.
  57. Jorgeson, J. and P.Y. Julien, "Peak Flow Forecasting with CASC2D and Radar Data", Special issue of Water International, [International Water Resources Association](#), IWRA, Vol. 30, No. 1, 2005, pp. 40-49.
  58. Duan, J.G. and P.Y. Julien, "Numerical Simulation of the Inception of Channel Meandering", Special Issue on Quantifying Rates of Geomorphic Processes of [Earth Surface Processes and Landforms](#), Vol. 30, 2005, pp. 1093-1110.
  59. Richard, G.A., P.Y. Julien and D.C. Baird, "Case Study: Modeling the Lateral Mobility of the Rio Grande below Cochiti Dam, New Mexico", [Journal of Hydraulic Engineering](#), ASCE, Vol. 131, No. 11, 2005, pp. 931-941.
  60. Guo, J., P.Y. Julien and R.N Meroney, "Modified Log-wake Law for Zero Pressure Gradient Turbulent Boundary Layers," [Journal of Hydraulic Research](#), IAHR, Vol. 43, No. 4, 2005, pp. 421-430.
  61. Richard, G.A., P.Y. Julien and D.C. Baird, "Statistical Analysis of Lateral Migration of the Rio Grande", Special Issue of [Geomorphology](#), Vol. 71, 2005, pp. 139-155.
  62. Julien, P.Y., G. Richard and J. Albert, "Stream Restoration and Environmental River Mechanics", Special Issue of the [Journal of River Basin Management](#), IAHR&INBO, Vol. 3, No. 3, 2005, pp. 191-202.
  63. Lee, J.S. and P.Y. Julien, "Electromagnetic Wave Surface Velocimeter", [Journal of Hydraulic Engineering](#), ASCE, Vol. 132, No. 2, 2006, pp. 146-153.
  64. Velleux, M., Julien, P.Y., Rojas-Sanchez, R., Clements, W., and J. England, "Simulation of Metals Transport and Toxicity at a Mine-Impacted Watershed: California Gulch Colorado", [Environmental Science and Technology](#), Vol. 40, No. 22, 2006, pp. 6996-7004.
  65. Kim, H.S. and P.Y. Julien, "Soil Erosion Modeling using RUSLE and GIS on the Imha Watershed, South Korea", Water Engineering Research, [Journal of the Korean Water Resources Association](#), Vol. 7, No. 1, 2006, pp. 29-41.

66. Kane, B. and P.Y. Julien, "Specific Degradation of Watersheds", [International Journal of Sediment Research](#), Vol. 22, No. 2, 2007, pp. 114-119.
67. England, J.F. Jr., Velleux, M.L. and Julien, P.Y. "Two-dimensional simulations of extreme floods on a large watershed", [Journal of Hydrology](#), 347(1-2), 2007, pp. 229-241.
68. Guo, J. and P.Y. Julien, "Applications of the Modified Log-wake Law in Open Channels", [Journal of Applied Fluid Mechanics](#), Vol. 1, No. 2, 2008, pp. 17-23.
69. Bhowmik, N., E.V. Richardson and P.Y. Julien, "Daryl B. Simons - Hydraulic Engineer - Researcher and Educator", Forum Article, [Journal of Hydraulic Engineering](#), ASCE, Vol. 134, No. 3, 2008, pp. 287-294.
70. Rojas, R., P.Y. Julien, M. Velleux and B.E. Johnson, "Grid Size Effect on Watershed Soil Erosion Models", [Journal of Hydrologic Engineering](#), ASCE, Vol. 134, No. 9, 2008, pp.793-802.
71. Ji, U., P.Y. Julien, S.K. Park and B. Kim, "Numerical Modeling for Sedimentation Characteristics of the Lower Nakdong River and Sediment Dredging Effects at the Nakdong River Estuary Barrage", [Korean Journal of Civil Engineering](#), Vol. 28, No. 4B, 2008, pp. 405-411.(in Korean)
72. Caruso, B.S., T.J. Cox, R.L. Runkel, M.L. Velleux, K.E. Bencala, D.K. Nordstrom, P.Y. Julien, B.A. Butler, C.N. Alpers, A. Marion, K.S. Smith. "Metals Fate and Transport Modelling in Streams and Watersheds: State-of-the-Science and US-EPA Workshop Review", Invited Commentary, [Journal of Hydrological Processes](#), Vol. 22, 2008, pp. 4011-4021.
73. Velleux, M.L., J.F. England Jr. and P.Y. Julien, "TRES: Spatially Distributed Model to Assess Watershed Contaminant Transport and Fate", [Journal of Science in the Total Environment](#), Vol. 404, 2008, pp. 113-128.
74. Park, S.K., P. Y. Julien, U. Ji and J.F. Ruff, "Case-study: Pier Scour Protection for the Gupo and Subway Bridges on the Lower Nakdong River, South Korea", [Journal of Hydraulic Engineering](#), ASCE, Vol.134, No. 11, 2008, pp.1639-1650.
75. Leon, C. , P.Y. Julien and D.C. Baird, "Case Study: Equivalent Widths of the Middle Rio Grande, New Mexico," [Journal of Hydraulic Engineering](#), ASCE, Vol.135, No. 4, 2009, pp. 306-315.
76. Julien, P.Y., A. Ab. Ghani, N.A. Zakaria, R. Abdullah and C.K. Chang, "Case-Study: Flood Mitigation of the Muda River, Malaysia," [Journal of Hydraulic Engineering](#), ASCE, Vol. 136, No. 4, 2010, pp. 251-261.
77. Shin, Y.H. and P.Y. Julien, "Changes in Hydraulic Geometry of the Hwang River below the Hapcheon Re-regulation Dam, South Korea", [International Journal of River Basin Management](#), IAHR, Vol.8, No.2, 2010, pp. 139-150.

78. Duan, J.G. and P.Y. Julien, "Numerical Simulation of Meandering Evolution", [Journal of Hydrology](#), Vol. 391, 2010, pp. 34-46.
79. England Jr., J.F., J.E. Godaire, R.E. Klinger, T. R. Bauer and P.Y. Julien, "Paleohydrologic Bounds and Extreme Flood Frequency of the Upper Arkansas River, Colorado, USA", [Journal of Geomorphology](#), Vol.124, 2010, pp. 1-16.
80. Shin, Y.H. and P.Y. Julien, "Case-Study: Effect of Flow Pulses on Degradation Downstream of Hapcheon Dam, South Korea", [Journal of Hydraulic Engineering](#), ASCE, Vol. 137, No. 1, 2011, pp. 100-111.
81. Kim, J., P.Y. Julien, U. Ji, and J. Kang, "Restoration Modeling Analysis for Abandoned Channels of the Mangyeong River", [Journal of the Environmental Sciences](#), 2011, pp. 555-564.
82. Johnson, B., Zhang, Z., Velleux, M. and P.Y. Julien, "Development of a Distributed Watershed Contaminant Transport, Transformation, and Fate (CTT&F) Sub-model", [Soil and Sediment Contamination: An International Journal](#), Vol.20, No.6, 2011, pp. 702-721.
83. Ji, U., P.Y. Julien and S.K. Park, "Case-Study: Sediment Flushing and Dredging near the Nakdong River Estuary Barrage", [Journal of Hydraulic Engineering](#), ASCE, Vol.137, No.11, 2011, pp. 1522-1535.
84. Shah-Fairbank, S., P.Y. Julien and D.C. Baird, "Total Sediment Load from SEMEP using Depth-Integrated Concentration Measurements", [Journal of Hydraulic Engineering](#), ASCE, Vol. 137, No. 12, 2011, pp. 1606-1614.
85. Lee, J.S., P.Y. Julien, J. Kim and T.W. Lee, "Derivation of Roughness Coefficient Relationships using Field Data in Vegetated Rivers", [J. Korean Water Resources Association](#), Vol. 45, No. 2, 2012, pp.137-149.
86. Velleux, M., A. Redman, P. Paquin, R. Santore, J.F. England Jr., and P.Y. Julien, "Exposure Assessment for Potential Risks from Antimicrobial Copper in Urbanized Areas", [Environmental Science and Technology](#), Vol. 46, 2012 , pp. 6723-6732.  
<http://dx.doi.org/10.1021/es204452w>
87. Lee, J.S., and P.Y. Julien, "Resistance Factors and Relationships for Measurements in Fluvial Rivers", [The Journal of Korea Contents Association](#), JKCA, Vol. 12, No. 7, 2012, pp. 445-452.
88. An, S.D., P.Y. Julien and S.K. Venayagamoorthy. "Numerical Simulation of Particle Driven Gravity Currents", [Environmental Fluid Mechanics](#), Vol. 12, No.6, pp. 495-513, December 2012.
89. Lee, J.S. and P.Y. Julien, "Utilizing the Concept of Vegetation Freeboard Equivalence in River Restoration", [International Journal of Contents, The Korea Contents Association](#), Vol.8, No.3, 2012, pp. 34-41.
90. Kositgittiwong, D., Chinnarasri, C., and P.Y. Julien, "Two-phase flow over stepped and smooth spillways: numerical and physical models",

- Ovidius University Annals Series: Civil Engineering, [Ovidius University Press](#), Issue 14, 2012, pp. 147-154.
91. Julien, P.Y., and B. Bounvilay, "Velocity of Rolling Bed Load Particles", [Journal of Hydraulic Engineering](#), ASCE, Vol. 139, No. 2, 2013, pp. 177-186.
  92. Luis, J., Sidek, M.L., Desa, M.N.B.M. and P.Y. Julien, "Hydropower Reservoir for Flood Control: A Case Study on Ringlet Reservoir, Cameron Highlands, Malaysia", [Journal of Flood Engineering](#), Vol. 4., No.1, January-June 2013, pp. 87-102.
  93. Chinnarasri, C., D. Kositgittiwong and P.Y. Julien, "Model of Flow over Spillways by Computational Fluid Dynamics", [Proceedings of the Institution of Civil Engineers](#), ICE, Water Management, 165, Issue WM1, 2013, pp. 1-12.
  94. Kositgittiwong, D., C. Chinnarasri and P.Y. Julien, "Numerical Simulation of Flow Velocity Profiles along a Stepped Spillway", Proc. of the Institution of Mechanical Engineers, Part E: [J. of Process Mechanical Engineering](#), Article 472171, November 2013, Vol. 227 No. 4, pp. 327-335.
  95. England, J.F., P.Y. Julien and M.L. Velleux, "Physically-Based Extreme Flood Frequency Analysis using Stochastic Storm Transposition and Paleoflood Data", [Journal of Hydrology](#), Vol. 510, 2014, pp. 228-245.
  96. Ji U., M. Velleux, P.Y. Julien and M. Hwang, "Risk Assessment of Watershed Erosion at Naesung Stream, South Korea", [J. Environmental Management](#), Vol. 136, 2014, pp. 16-26.
  97. An, S.D., and P.Y. Julien, "Case-study: Three-Dimensional Modeling of Turbid Density Currents in Imha Reservoir, South Korea", ASCE [Journal of Hydraulic Engineering](#), Vol. 140, No. 5, 2014, 15p.
  98. Bussi, G., F. Frances, J.J. Montoya and P.Y. Julien. "Distributed sediment yield modeling: importance of initial sediment conditions," [Journal of Environmental Modelling and Software](#), 58, 2014, pp.58-70.
  99. Luis, J., L.M. Sidek and P.Y. Julien. "Preliminary investigation and design considerations for the rehabilitation of thrash screen at JOR Reservoir low level outlet," [Applied Mechanics and Materials](#), Vol. 567 2014, pp. 128-132.
  100. Abdullah, J. and P.Y. Julien, "Distributed Flood Simulations on a Small Tropical Watershed with the TRES Model", [Journal of Flood Engineering](#), Vol. 5, No. 1-2, 2014, pp. 17-37.
  101. Shah-Fairbank, S., and P.Y. Julien, "Sediment Load Calculations from Point Measurements in Sand-bed Rivers", [International Journal of Sediment Research](#), Vol. 30, 2015, pp. 1-12.
  102. Muhammad, N.S., P.Y. Julien, and J.D. Salas, "Probability Structure and Return Periods of Multi-Day Monsoon Rainfall", [Journal of Hydrologic Engineering](#), ASCE, June 2015, 11p.

103. An, S.D., H. Ku and P.Y. Julien, "Numerical Modelling of Local Scour caused by Submerged Jets", [Maejo International Journal of Science and Technology](#), Vol. 9, No. 3, October 2015, pp. 328-343.
104. Lee, J.H. and P.Y. Julien, "ENSO impacts on Temperature over South Korea", [International Journal of Climatology](#), 36, 2016, pp. 3651-63.
105. Lee, J.H. and P.Y. Julien, "Teleconnections of the ENSO and South Korean Precipitation Patterns", [Journal of Hydrology](#), 534, 2016, pp. 237-250.
106. Rousar, L., Z. Zachoval and P.Y. Julien, "Incipient motion of coarse uniform gravel", [Journal of Hydraulic Research](#), IAHR, 2016, 17p.
107. Abdullah, J., N.S. Muhammad, P.Y. Julien, J.Ariffin and A. Shafie, "Flood Flow Simulations and Return Period Calculation for the Kota Tinggi Watershed, Malaysia", [Journal of Flood Risk Management](#), Vol. 11, No. S2, 2016, 766-782.
108. Julien, P.Y., "Our Hydraulic Engineering Profession", 2015 Hunter Rouse Lecture, Hydraulic Engineering Lecture, 60<sup>th</sup> Anniversary State-of-the-Art Reviews, [Journal of Hydraulic Engineering](#), ASCE, Vol. 143, No. 5, 7p.
109. Lee, J.H. and P.Y. Julien, "Influence of El Nino/Southern Oscillation on South Korean Streamflow Variability", [Journal of Hydrological Processes](#), March 2017, pp. 1-17.
110. Lee, J.S. and P.Y. Julien, "Composite Flow Resistance", [Journal of Flood Engineering](#), Vol. 8 No.2, July-December 2017, pp. 55-75.
111. Kim, H.Y., D. G. Fontane, P.Y. Julien, and J.H. Lee, "Multi-objective Analysis of the Sedimentation behind Sangju Weir, South Korea", ASCE [Journal of Water Resources Planning and Management](#), Vol. 144, No. 2, 2018, 12p.
112. Lee, Joonhak, Jai Hong Lee and P.Y. Julien, "Global climate teleconnection with rainfall erosivity in South Korea", [Catena](#), Vol. 167, March 2018, pp. 28-43.
113. Kim, H.Y., and P.Y. Julien, "Case Study: Hydraulic Thresholds to Mitigate Sedimentation Problems at Sangju Weir", ASCE [Journal of Hydraulic Engineering](#), Vol. 144, No. 6, 2018, 13p.
114. Lee, J.H., J.A. Ramirez, W. Kim and P.Y. Julien, "Variability, teleconnection, and predictability of Korean precipitation in relation to large scale climate indices", [Journal of Hydrology](#), 568, 2019, pp. 12-25.
115. Palu, M., and P.Y. Julien, "Case Study: Modeling the Sediment Load of the Doce River after the Fundão Tailings Dam Collapse, Brazil", ASCE [Journal of Hydraulic Engineering](#), Vol.145, No. 5, On line March 2019, 14p. ASCE, ISSN 0733-9429.
116. Lee, J.H., P.Y. Julien and C. Thornton "Interference of Dual Spillway Operations", ASCE [Journal of Hydraulic Engineering](#), Vol.145, No. 5, On line March 2019, 13p. ASCE, ISSN 0733-9429.

117. Batista, J.N. and P.Y. Julien, "Remotely sensed survey of landslide clusters: case study of Itaoca, Brazil", [Journal of South American Earth Sciences](#), Vol. 92, 2019, pp. 145-150.
118. Yang, C.Y. and P.Y. Julien, "The ratio of measured to total sediment discharge", [International Journal of Sediment Research](#), Vol. 34, 2019, pp. 262-269.
119. Lee, J.H., P.Y. Julien and E.D. Maloney, "The variability of South Korean temperature associated with Climate Indicators", *Journal of Theoretical and Applied Climatology*, Published on-line March 2019. <https://doi.org/10.1007/s00704-019-02842-8>
120. Abdullah, J., N.S. Muhammad, S.A. Muhammad and P.Y. Julien, "Envelope curves for the specific discharge of extreme floods in Malaysia", *Journal of Hydro-Environmental Research*, Vol. 25, June 2019, pp. 1-11. <https://doi.org/10.1016/j.jher.2019.05.002>
121. Lee, J.H., P.Y. Julien, C. Thornton, and C.H. Lee, "Large Scale Climate Teleconnections with South Korean Streamflow Variability", *Hydrological Processes Journal*, 2019, 15p. <https://doi.org/10.1080/02626667.2019.1617869>
122. Kang, W., C.Y. Yang, J.H. Lee and P.Y. Julien, "Sediment Yield for Ungauged Watersheds in South Korea", *KSCE Journal of Civil Engineering*, Vol. 23, No. 12, 2019, 5109-5120. <https://link.springer.com/article/10.1007/s12205-019-0085-3>
123. Palu, M., and P.Y. Julien, "Test and Improvement of 1-D Routing Algorithms for Dam Break Floods", *ASCE Journal of Hydraulic Engineering*, Vol. 146, No. 6, 2020, 13p. [https://doi.org/10.1061/\(ASCE\)HY.1943-7900.0001755](https://doi.org/10.1061/(ASCE)HY.1943-7900.0001755)
124. Ettema, R., C. Thornton, P. Julien and T. Hogan, "Applied Research can Enhance Hydraulic Engineering Education", *ASCE Journal of Hydraulic Engineering*, Vol. 146, No. 5, 2020, 9p. With discussion by H.K. Gildeh, I. Nistor and A. Mohammadian and closure in Vol. 147, No. 5, 2021, 5p. [https://doi.org/10.1061/\(ASCE\)HY.1943-7900.0001730](https://doi.org/10.1061/(ASCE)HY.1943-7900.0001730)
125. Lee, J.H., C.Y. Yang and P.Y. Julien, "Taiwanese rainfall variability associated with large scale climate phenomena", *Advances in water Resources*, 135, 2020, <https://doi.org/10.1016/j.advwatres.2019.103462>
126. Saadon, A., J. Abdullah, N.S. Muhammad, J. Ariffin and P.Y. Julien, "Predictive Models for the Estimation of Riverbank Erosion Rates," *Catena*, 196, 2021, 12 p. <https://doi.org/10.1016/j.catena.2020.104917>
127. Kang, W., E.K.Jang, C.Y. Yang and P.Y. Julien, "Geospatial Analysis and Model Development for Specific Degradation in South Korea Using Model Tree Data Mining," *Catena*, 200, 2021, 12p. <https://doi.org/10.1016/j.catena.2021.105142>
128. Andika, N. and P.Y. Julien, "Case Study: Sediment Propagation in

- Porong River below the Sidoarjo Mud Volcano Diversion in Indonesia*", ASCE Journal of Hydraulic Engineering, Vol. 147, No. 11, 2021, 12p. <https://orcid.org/0000-0002-7715-1830>
129. Kang, W. and P.Y. Julien, "Evaluating and developing a model of specific degradation using geospatial analysis for sediment erosion management in South Korea," Hydrology and Earth System Science, 10, June 2021, 22p. <https://doi.org/10.5194/hess-2021-225>
  130. Yang, C.Y., W. Kang, J.H. Lee and P.Y. Julien, "Sediment Regimes in South Korea", River Research and Applications, Vol.38, pp. 209-221, October 2021. <https://doi.org/10.1002/rra.3896>.
  131. Jai Hong Lee, P.Y. Julien, Jongseok Cho, Seungho Lee, Jungho Kim, and Woochul Kang, "Rainfall erosivity variability over the United States associated with large-scale climate variations by El Nino/southern oscillation", Catena 226 (2023) 107050. <https://doi.org/10.1016/j.catena.2023.107050>
  132. Jai Hong Lee, P.Y. Julien and Seungho Lee, "Teleconnection of ENSO extreme events and precipitation variability over the United States", Journal of Hydrology 619 (2023) 12906. <https://doi.org/10.1016/j.jhydrol.2023.129206>
  133. Jai Hong Lee, P.Y. Julien and Seungho Lee, "Midlatitude surface temperature variability and teleconnection associated with warm and cold phases of El Niño/Southern Oscillation", Journal of Theoretical and Applied Climatology, June 2023, 21p. <https://doi.org/10.1007/s00704-023-04528-8>
  134. Woo, H., P.Y. Julien, B. Yoon and S.U. Choi, "Sedimentation Issues of the Four Major Rivers Restoration Project in South Korea", Journal of Hydro-environment Research, Vol. 50 pp.57-61. <https://doi.org/10.1016/j.jher.2023.08.001>
  135. Julien. P.Y., K. Park, D.C. Baird, N. Holste, "Mechanics of Sediment Plug Formation in the Middle Rio Grande, NM" Civil Engineering Research Journal, Vol. 14, No. 4, 2024, 17p. <http://dx.doi.org/10.19080/CERJ.2024.14.555893>
  136. Mortensen, J.G., P.Y. Julien, B.Corsi, C. Radobenko, and T. Anderson, "Impacts of hydrologic and geomorphic alteration to the availability of shallow, low-velocity habitats in an intensively managed arid-land river", Journal of River Research and Applications, pp. 1-17. <http://doi.org/10.1002/rra.4338>.

## TECHNICAL NOTES and EDITORIALS in REFEREED JOURNALS

1. Woo, H.S., P.Y. Julien and E.V. Richardson, "Washload and fine sediment load," *Journal of Hydraulic Engineering*, ASCE, June 1986, Vol. 112, No. 6, pp. 541-545.
2. Woo, H.S., P.Y. Julien and E.V. Richardson, "Transport of bed sediment in clay suspensions," *Journal of Hydraulic Engineering*, ASCE, 1987, Vol. 113, No. 8, pp. 1061-1066.
3. Simons, D.B. and P.Y. Julien, "Analysis and testing of hydrologic models," *Technical Letter*, CIRA Newsletters, Vol. 2, No. 2, Sept. 1987, pp. 8-9.
4. Simons, D.B. and P.Y. Julien, "Hydrologic modeling at Colorado State University," *Army Environmental Sciences Journal*. Vol.6, No.3, 1988, pp. 9-10.
5. Williams, D.T. and P.Y. Julien, "On the selection of sediment transport equations," *Journal of Hydraulic Engineering*, ASCE, Nov. 1989, Vol. 115, No. 11, pp. 1578-1581.
6. Woo, H.S. and P.Y. Julien, "Turbulent shear stress in heterogeneous sediment-laden flows," [Journal of Hydraulic Engineering](#), ASCE, Nov. 1990, Vol. 116, No. 11, pp. 1416-1421.
7. Julien, P.Y., "The On-going Challenge," Editorial, [Journal of Hydraulic Engineering](#), ASCE, Vol. 128, No. 3, March 2002, pp. 250-251.
8. Julien, P.Y., "A Strong Editorial Board," Editorial, [Journal of Hydraulic Engineering](#), ASCE, Vol. 128, No. 6, June 2002, pp. 558-560.
9. Julien, P.Y., "Sesquicentennial Highlights," Editorial, [Journal of Hydraulic Engineering](#), ASCE, Vol. 128, No. 12, December 2002, pp.1041-1041.
10. Julien, P.Y., "News from the Editorial Board," Editorial, [Journal of Hydraulic Engineering](#), ASCE, Vol. 129, No. 8, 2003, pp. 561-562.
11. Julien, P.Y., "Annual Review 2003," Editorial, [Journal of Hydraulic Engineering](#), ASCE, Vol. 129, No. 12, December 2003, pp. 925-926.
12. Julien, P.Y., "News from the Editorial Board," [Editorial, Journal of Hydraulic Engineering](#), ASCE, Vol. 130, No. 9, 2004, pp. 841-842.
13. Julien, P.Y., "Annual Review 2004," Editorial, [Journal of Hydraulic Engineering](#), ASCE, Vol. 130, No. 12, December 2004, pp. 1135-36.
14. Guo, J. and P.Y. Julien, "An Efficient Algorithm for Computing Einstein Integrals," [Journal of Hydraulic Engineering](#), ASCE, Vol. 130, No.12, 2004, pp. 1198-1201.
15. Guo, J., P.Y. Julien and R.N. Meroney, "Modified log-wake law for zero-pressure gradient turbulent boundary layers", [Journal of Hydraulic Research](#), IAHR, Vol. 43, No.4, 2005, pp.421-430.
16. Julien, P.Y., "Annual Review 2005," Editorial, [Journal of Hydraulic Engineering](#), ASCE, Vol. 131, No. 12, December 2005, pp. 1029-1030.
17. Lee, J.S. and P.Y. Julien, "Downstream Hydraulic Geometry of Alluvial Channels", [Journal of Hydraulic Engineering](#), ASCE, Vol. 132, No. 12, December 2006, pp. 1347-1352.

18. Julien, P.Y., N. Friesen, J.G. Duan and R. Eykholt, "Celerity and Amplification of Supercritical Surface Waves." [Journal of Hydraulic Engineering](#), ASCE, Vol. 136, No. 9, 2010, pp. 656-661.
19. Julien, P.Y. and A. Paris, "Flow Velocities for Mudflows and Debris Flows," [Journal of Hydraulic Engineering](#), ASCE, Vol. 136, No. 9, 2010, pp. 676-679.

### **DISCUSSIONS, CLOSURES and BOOK REVIEWS IN REFEREED JOURNALS**

1. Julien, P.Y., D.B. Simons and R.M. Li. Discussion on "Impingement of water jets on uniform streambed," *Journal of Hydraulic Engineering*, ASCE, June 1984, Vol. 110, No. 6, pp. 861-863.
2. Julien, P.Y. and C.R. Thorne. Discussion on "Analysis of river meanders," by H.H. Chang, *Journal of Hydraulic Engineering*, ASCE, May 1985, Vol. 111, No. 5, pp. 897-898.
3. Julien, P.Y. and C.R. Thorne. Discussion on "Flow and bed topography in fluvial channel bend," by A.J. Odgaard, *Journal of Hydraulic Engineering*, ASCE, June 1985, Vol. 111, No. 6, pp. 1031-1035.
4. Julien, P.Y. and J.S. O'Brien. Discussion on "Mountain torrent erosion" by K. Ashida, *Sediment Transport in Gravel-Bed Rivers*, Pingree Park, Colorado, Wiley, 1987, pp. 537-539.
5. Julien, P.Y. Discussion on "Extremal hypotheses applied to river regime," by R. Bettess and W.R. White, *Sediment Transport in Gravel-Bed Rivers*, Pingree Park, Colorado, Wiley, 1987, pp. 778-780.
6. Julien, P.Y. Discussion on "The coarse surface layer as a response to gravel mobility," by E.D. Andrews and G. Parker, *Sediment Transport in Gravel-Bed Rivers*, Pingree Park, Colorado, Wiley, 1987, 312-314.
7. Julien, P.Y. Discussion on "Sediment transport in step-pool streams," by J.G. Whittaker, *Sediment Transport in Gravel-Bed Rivers*, Pingree Park, Colorado, Wiley, 1987, p. 572.
8. Julien, P.Y. Discussion on "Comparison of MOBED and HEC-6 river flow models," *Canadian Journal of Civil Engineering*, CSCE, Vol. 13, No. 3, 1986, p. 396.
9. Julien, P.Y. Discussion on "Sediment transport in shallow flows" by N.M. Aziz and S.N. Prasad, *Journal of Hydraulic Engineering*, ASCE, Sept. 1987, Vol. 113, No. 9, pp. 1214-1215.
10. Julien, P.Y. and Y.Q. Lan. Discussion on "Simple model of sediment-laden flow" by G. Parker and N.L. Coleman, *Journal of Hydraulic Engineering*, ASCE, Vol. 114, No. 2, Feb. 1988, pp. 231-232. This discussion won the J.C. Stevens Award. The J. C. Stevens Award recognizes excellence in a paper published by the Society. The paper is in the field of hydraulics, including fluid mechanics and hydrology.

11. Julien, P.Y. Discussion on "*Sediment transport capacity of sheet and rill flow: Application of unit stream power theory*," by I.D. Moore and G.J. Burch, *Water Resources Research*, AGU, August 1987, Vol. 23, No. 8, p. 1700.
12. Julien, P.Y. and L.F. Janin. Discussion on "*Open-channel flow measurement with a laser-Doppler anemometer*" by I. Nezu and W. Rodi, *Journal of Hydraulic Engineering*, ASCE, Vol. 113, No. 12, December, 1987, pp. 1572-1573.
13. Julien, P.Y. Closure to the Discussion by G.H. Vatistas and S. Lin on "*Concentration of very fine sediment particles in a vortex*," *Journal of Hydraulic Research*, IAHR, Vol. 25, No. 4, 1987, pp. 526-528.
14. Julien, P.Y. Review of the book Fluvial Processes in River Engineering by H.H. Chang, *Journal of Hydraulic Research*, IAHR, Vol. 26, No. 5, 1988, p. 599.
15. Julien, P.Y. Review of the book Mechanics of Plains Rivers by T. Blench, *Canadian Journal of Civil Engineering*, CSCE, Vol. 16, No. 6, 1989, pp. 962-963.
16. Julien, P.Y. Discussion on "*Dispersive force basis for concentration profiles*," by K.C. Wilson and F.J. Pugh, *Journal of Hydraulic Engineering*, ASCE, Vol. 116, No. 2, 1990, pp. 297-298.
17. O'Brien, J.S., and Julien, P.Y. Closure to the discussions by J.P.Y. Maa and H. Pazwash on "*Laboratory analysis of mudflow properties*," *Journal of Hydraulic Engineering*, ASCE, Vol. 116, No. 2., 1990, 303-304.
18. Bormann, N.E. and P.Y. Julien, Closure to the discussions of S.Y. Lim, G.K. Cotton, M. Shafai-Bajestan and M.L. Albertson on "*Scour downstream of grade-control structures*," *Journal of Hydraulic Engineering*, ASCE, Vol. 117, No. 5, May 1991, pp. 579-594.
19. Julien, P.Y. Review of the book Elements d'hydraulique torrentielle, by M. Meunier, *Journal of Hydraulic Research*, IAHR, Vol. 31, 1993. p. 144.
20. Julien, P.Y. Review of the book Basic physics and mechanics of channel erosion, by T. E. Mirtskhoulava, *Journal of Hydraulic Research*, IAHR, Vol. 31, 1993, p. 144.
21. O'Brien, J.S., P.Y. Julien and W.T. Fullerton, Closure to the discussion by J.R. Schaaf on "*Two-dimensional water flood and mudflow simulation*," *Journal of Hydraulic Engineering*, ASCE, Vol. 120, No. 6, 1994, 771-774.
22. Julien, P.Y., Review of the book Hyperconcentrated Flow by Zhaohui Wan and Zhaoyin Wang, *Journal of Hydraulic Engineering*, ASCE, Vol. 120, No. 10, 1994, pp. 1234.
23. O.R. Stein, P.Y. Julien, and C.V. Alonso. Closure to the discussion by L.I. Machado on "*Mechanics of scour downstream of a headcut*," *Journal of Hydraulic Research*, Vol. 32, No.6, 1994, pp. 951-953.
24. O.R. Stein, P.Y. Julien, and C.V. Alonso. Closure to the discussion by J.P.

- Martin Vide on "*Mechanics of scour downstream of a headcut*," Journal of Hydraulic Research, Vol. 32, No.6, 1994, pp. 954-957.
25. Julien, P.Y., Discussion on "*Velocity of air-core vortices at hydraulic Intakes*" by J.E. Hite and W.C. Mih, Journal of Hydraulic Engineering, ASCE, Vol. 121, No. 5, 1995, pp. 440-441.
  26. Julien, P.Y., Discussion on "*Education in hydraulics: from the nineties to the zeros*," by J. McNown and H. Kobus, Proc. Iowa Hydraulics Colloquium on Issues and Directions in Hydraulics, May 22-24, 1995, pp. 17-18.
  27. Julien, P.Y., and J. Wargadalam. Closure to the discussions by W. Hager and H. Huang on "*Alluvial Channel Geometry: Theory and Applications*," Journal of Hydraulic Engineering, ASCE, Vol. 122, No. 12, 1996, pp. 750-754.
  28. Julien, P.Y., Discussion on "*Sediment-laden flow in open channels from two-phase flow viewpoint*" by Z. Cao, L. Wei, and J. Xie, Journal of Hydraulic Engineering, ASCE, Vol. 123, No. 6, 1997, pp. 578-580.
  29. Julien, P.Y., and G.J. Klaassen. Closure to the discussions by C.R. Neill, Amsler and M. Garcia on "*Sand-Dune Geometry of Large Rivers during Floods*," Journal of Hydraulic Engineering, ASCE, Vol. 123, No. 6, 1997, pp. 582-585.
  30. Julien, P.Y. Several discussions in Recent Developments on Debris Flows, Lecture Notes in Earth Sciences, Ed. A. Armanini and M. Michiue, Springer Verlag, Vol. 64, 1997, pp. 25-26, 91-92, 140-143, 185, 206-207.
  31. Julien, P.Y. Closure to the discussions by A. Armanini, Y. Taniguchi, R. Kitamura, M. Michiue, J. Aguirre-Pe, T. Takahashi and T. Davies on "*Selected Notes on Debris Flow Dynamics*," in Recent Developments on Debris Flows, Lecture Notes in Earth Sciences, Edited by A. Armanini and M. Michiue, Springer Verlag, Vol. 64, 1997, pp. 155-162.
  32. Julien, P.Y. Review of the book Kinematic Wave Modeling in Water Resources by V.P. Singh, Wiley Interscience, EOS, Vol. 79, No. 16, 1998, p. 199.
  33. Julien, P.Y., and Y. Raslan. Closure to the discussions by Raul Pacheco-Ceballos on "*Upper-Regime Plane Bed*," Journal of Hydraulic Engineering, ASCE, Vol. 125, No. 12, 1999, p. 1314.
  34. Johnson, B.E., P.Y. Julien, D.K. Molnar and C.C. Watson, Closure to the discussion by Ray Whittemore and Martin E. Lebo of "*The Two-dimensional Upland Erosion Model CASC2D-SED*," Journal of the American Water Resources Association, AWRA, Vol. 36, No. 6, December 2000, pp. 1435-1436.
  35. Julien, P.Y. Review of the Water Resources Publications book Bridge Scour by B. Melville and S. Coleman, Journal of Hydraulic Engineering, ASCE, Vol. 128, No.9, 2002, pp. 875-876.
  36. Julien, P.Y. Review of the CRC Press handbook The Civil Engineering

- Handbook, Edited by W.F. Chen and J.Y. Richard Liew, Journal of Hydraulic Engineering, ASCE, Vol. 130, No. 5, 2004, p. 475.
37. Julien, P.Y., Review of the book Fluvial Processes by M.S. Yalin and A.M. Ferreira da Silva, Journal of Hydraulic Engineering, ASCE, 130(7), 2004, p. 726.
  38. Julien, P.Y. Review of the World Scientific book Mechanics of Coastal Sediment Transport by Jorgen Fredsoe and Rolf Deigaard, Journal of Hydraulic Engineering, ASCE, Vol.130, No. 11, 2004, p. 1132.
  39. Julien, P.Y. Review of the Kluwer Academic Publishers book Sedimentation and Sediment Transport Edited by Albert Gyr and Wolfgang Kinzelbach, Journal of Hydraulic Engineering, ASCE, Vol. 130, No. 12, 2004, p. 1216.
  40. Julien, P.Y., Review of the Balkema book Fluvial, Environmental and Coastal Developments in Hydraulic Engineering Edited by M. Mossa, Y. Yasuda and H. Chanson, Journal of Hydraulic Engineering, ASCE, Vol. 131, No. 7, 2005, pp. 629-630.
  41. Julien, P.Y. Review of the Blackwell Publishing book Rivers and Floodplains by M. John S. Bridge, Journal of Hydraulic Engineering, ASCE, Vol. 131, No. 8, 2005, p. 740.
  42. Julien, P.Y., Review of Environmental Hydraulics and Sustainable Water Management, Proc. 4<sup>th</sup> Intl. Symposium on Environmental Hydraulics and the 14<sup>th</sup> Congress of APD, IAHR, Edited by L.H.W. Lee and K.M. Lam, J. of Hydraulic Engineering, ASCE, Vol. 131, No. 9, 2005, p. 833.
  43. Julien, P.Y., Review of Rivers '04 Proceedings of the 1<sup>st</sup> Intl. Conference on Managing Rivers in the 21<sup>st</sup> Century: Issues and Challenges, by A. Ab Ghani, N.A. Zakaria. R. Abdullah, and M.S. Ahamad, J. of Hydraulic Engineering, ASCE, Vol.131, No.11, 2005, 1026.
  44. Guo, J. and P.Y. Julien, Closure to the discussion by Robert Booij on "*Modified Log-wake Law for Turbulent Flow in Smooth Pipes*," Journal of Hydraulic Research, IAHR, Vol. 43, No. 4, 2005, pp. 432-434.
  45. Guo, J. and P.Y. Julien, Closure to the discussions by J.D. Abad and M. H. Garcia, A. Roland and U. Zanke, and R. Srivastava on "*Efficient Algorithm for Computing Einstein Integrals*," Journal of Hydraulic Engineering, ASCE, Vol. 132, No. 3, 2006, pp. 332-339.
  46. Guo, J. and P.Y. Julien, Closure to the discussions by S.Q. Yang and S.Y. Lim on "*Shear Stress in Smooth Rectangular Open-Channel Flows*," J. Hydraulic Engineering, ASCE, Vol. 132, No. 6, 2006, pp. 629-632.
  47. Julien, P.Y., Review of the Wiley book Fundamental of Environmental Engineering by J.R. Mihelcic, Journal of Hydraulic Engineering, ASCE, Vol. 132, No. 6, 2006, p. 633.
  48. Julien, P.Y., Review of the Veen Magazines book The Dutch Rhine, a Restrained River, by W. ten Brinke, Journal of Hydraulic Engineering, ASCE, Vol. 132, No. 9, 2006, p. 1001.
  49. Julien, P.Y., Review of the Proceedings River, Coastal and Estuarine

- Morphodynamics: RCEM 2005, by G. Parker and M. Garcia, *Journal of Hydraulic Engineering*, ASCE, Vol. 132, No. 10, 2006, p. 1118.
50. Julien, P.Y., Review of the McGraw Hill book Scour Technology by G.W. Annandale, *Journal of Hydraulic Eng.*, ASCE, 132(11), 2006, p. 1245.
  51. Julien, P.Y., Review of River Engineering in Switzerland by H.-E. Minor and W.H. Hager, *Journal of Hydraulic Engineering*, ASCE, Vol. 132, No. 12, 2006, p. 1363.
  52. Sanders, T.G. and P.Y. Julien, "Vujica Yevjevich (1913-2006)," IAHR Newsletter Vol. 22/2006 (supplement to JHR - Vol. 44 - No. 4), p. 6.
  53. Julien, P.Y., Review of Hydraulicians in Europe 1800-2000 - a biographical dictionary of leaders in hydraulic engineering and fluid mechanics by W.H. Hager, *Journal of Hydraulic Engineering*, ASCE, Vol. 133, No.10, 2007, p.1185.
  54. Julien, P.Y., Review of Educating the Engineer of 2020 by the National Academy of Engineering, *Journal of Hydraulic Engineering*, ASCE, Vol. 133 No. 11, 2007, p.1296.
  55. Lee, J.S. and P.Y. Julien, Closure to the discussions by A. Kothyari and H. Hashimoto, and W. Hager on "Downstream Hydraulic Geometry of Alluvial Channels", Technical Note , *Journal of Hydraulic Engineering*, ASCE, Vol. 134, No. 4, April 2008, pp. 504-505.
  56. Julien, P.Y., Review of the Erosion and Sedimentation Manual by the U.S. Bureau of Reclamation, *Journal of Hydraulic Engineering*, ASCE, Vol. 134, No. 8, August 2008, p. 1189.
  57. Julien, P.Y., Review of Computational River Dynamics by Weiming Wu, *Journal of Hydraulic Engineering*, ASCE, Vol.134, No.10, 2008, p.1542.
  58. Julien, P.Y., "Obituary for Maurice L. Albertson (1918-2009)," Hydrolink, IAHR Newsletter No. 4, 2009, p. 63.
  59. Julien, P.Y., Review of Constructions Hydrauliques by W. H. Hager and A.J. Schleiss, *Journal of Hydraulic Engineering*, ASCE, Vol. 137, No. 1, 2011, p. 146.
  60. Julien, P.Y., and A. Paris, Closure to the discussion by Bin Yu on "Mean velocity of mudflows and debris flows", *Journal of Hydraulic Engineering*, ASCE, Vol. 138, No. 2, February 2012, pp. 223-225.
  61. Julien, P.Y., Review of Sedimentation Engineering, Processes, Measurements, Modeling and Practice, EWRI, ASCE, Ed. by Marcelo H. Garcia, [Journal of Hydraulic Research](#), IAHR, 52(5), 2014, 718-719.
  62. Julien, P.Y. "Congratulatory Statement for the Journal of Disaster Research", requested statement for the 10 year anniversary of UNESCO supported bi-monthly [Journal of Disaster Research](#), Vol. 10, No. 4, 2015, p. 579.
  63. Julien, P.Y., Review of Hans Albert Einstein, his life as a Pioneering Engineer by R. Ettema and C.F. Mutel, [Journal of Hydraulic Engineering](#), ASCE, Vol. 142, No. 2, 2016, 2p.
  64. Julien, P.Y., Review of Hydrologic Analysis and Design by R.H. McCuen,

- [Journal of Hydrologic Engineering](#), ASCE, Vol. 23, No. 7, 2018, 1p.
65. Julien, P.Y., Review of *Unsteady Flow in Open Channels* by J. Battjes and R.J. Labeur, [Journal of Hydraulic Engineering](#), ASCE, Vol. 144, No. 9, 2018, 1p.
66. Ettema, R., C. Thornton, P. Julien and T. Hogan, Closure to the discussion from H.K. Gildeh, I. Nistor and A. Mohammadian on the paper "*Applied Research can Enhance Hydraulic Engineering Education*", in Vol. 147, No. 5, 2021, 5p.  
[https://doi.org/10.1061/\(ASCE\)HY.1943-7900.0001730](https://doi.org/10.1061/(ASCE)HY.1943-7900.0001730)

## **NON-REFEREED PUBLICATIONS**

### **KEYNOTE ADDRESSES and INVITED GENERAL LECTURES**

1. Simons, D.B. and P.Y. Julien. *Engineering analysis of river meandering*, **Keynote paper** in River Meandering, Proceedings of the ASCE Conference on Rivers '83, pp. 530-544 (delivered by D.B. Simons).
2. Richardson, E.V., H.S. Woo and P.Y. Julien. *Research trends in sedimentation*, **Keynote Paper** in Megatrends in Hydraulic Engineering, Colorado State University, 1986, pp. 299-330 (delivered by P. Julien).
3. Frenette, M. and P.Y. Julien. *Advances in predicting reservoir sedimentation*, **General lecture and paper**, Third International Symposium on River Sedimentation, ISRS-III, Jackson, Mississippi, March 31-April 4, 1986, pp. 26-46 (delivered by M. Frenette).
4. Julien, P.Y., *Recent Advances in Sedimentation and River Mechanics*, **Keynote Address** at the Korean National Hydraulic Engineering Conference, Incheon University, Seoul, Korea, May 11, 2002.
5. Julien, P.Y., *Computer Modeling of Upland Erosion*, **Keynote Address** at the 13th APD-IAHR Congress, Singapore, August 6-8, 2002, Vol.I, 475-483.
6. Julien, P.Y., and J. Jorgeson, *Peak Flow Forecasting with CASC2D and Radar Data*, **Keynote Address** at the 2<sup>nd</sup> International Conference on Flood Defence, Beijing, September 2002, pp. 23-33.
7. Julien, P.Y., G. Richard and J. Albert, "*Stream Restoration and Environmental River Mechanics*", **Keynote Address**, Proc. First International Conference on Managing Rivers in the 21st Century, Rivers '04, Universiti Sains Malaysia, Penang, Malaysia, September 21, 2004, pp. 62-78 (delivered by P. Julien).
8. Julien, P.Y. "Waterfront Urban Development and Disaster Countermeasures in the USA", **Keynote Address**, [PNU](#), Busan, South Korea, April 27, 2006.

9. Julien, P.Y. *Issues and Challenges in Sediment Management*, **Keynote Address** at the UNESCO-ISI Workshop on Sediment Issues in South and Southeast Asia, AITCC, Bangkok, Thailand, April 24, 2006.
10. Julien, P.Y., "*River Restoration and Flood Control*," **Keynote Paper** at the 3<sup>rd</sup> International Workshop on River Environment, KINTEX, Seoul, South Korea, April 30, 2007.
11. Julien, P.Y., M. Velleux, J. England and J. Halgren. "*Flash Flood and Sediment Modeling with TREX*," **Keynote Address** in *Innovations in Water Resources and Environmental Engineering*, Proceedings of the International Conference on Construction and Building Technology, June 16<sup>th</sup> 20<sup>th</sup>, 2008, Kuala Lumpur, Malaysia, pp 1-20.
12. Julien, P.Y. "*Soluciones a Problemas de Ingenieria de Rios*" **Conferencia Magistral Inaugural (Keynote Address)** of the Primer Seminario de Potamologia Jose Antonio Maza Alvarez, Jiutepec, Morelos, Mexico, November 19, 2008.
13. Julien, P.Y. "*Prospective Climate Change Impact on Large Rivers in the US and South Korea*", **Invited Keynote Lecture**, Proceedings of the International Symposium on River Restoration Providing for Climate Change, [Seoul Press Center](#), Seoul, South Korea, August 11, 2009.
14. Julien, P.Y. "*Prospective Impact of Climate Change on Rivers in the US and Asia*." **Invited Eminent Speaker**, Universiti Teknologi MARA, Shah Alam, Malaysia, April 7, 2010.
15. Julien, P.Y. "*Case Studies on River Management*", **Invited Plenary Speaker** at the International Conference on River Restoration for [Green Growth](#), Lotte Hotel World, Seoul, Oct. 7-8, 2011.
16. Julien, P.Y., "*Lateral Migration of Alluvial Channels*", **Keynote Address**, *Hydraulica Fluvial: Procesos de Erosion Y Sedimentacion, Obras de Control y Gestion de Rios*, November 2-4, 2011, [Santiago del Estero](#), Argentina.
17. Julien, P.Y., "*The Power of Collaborative Research*", **Invited Plenary Speaker** at the [Central Water and Power Research Station](#), July 23, 2012, Pune, India.
18. Julien, P.Y., "*Flood Modeling and Simulation*", **Keynote Speaker**, International Flood Control Symposium, Intekma Resort and Convention Center, January 16, 2013, Shah Alam, Malaysia.
19. Julien, P.Y. and O. Martyusheva, "*Smart Water Grids and Network Vulnerability*", **Invited Plenary Speaker**, Smart Water Grid International Conference, November 12-15, 2013, Songdo ConvensiA, Incheon, South Korea (delivered by P. Julien).
20. Julien, P.Y., "*Analysis of Extreme Floods in Malaysia*", **Keynote Speaker**, Proc. of the International Symposium on Flood Research and Management, ISFRAM 2014, [Kota Kinabalu](#), Sabah, Borneo, September 28-October 1, 2014 (6p. [paper](#)).
21. Julien, P.Y., "*Downstream Hydraulic Geometry of Alluvial Rivers*",

- Keynote Address**, Proc. ICCE/IAHS Symposium on Sediment Dynamics from the Summit to the Sea, New Orleans, LA, December 11-14, 2014, (published in the [proceedings IAHS Publication 367](#), pp. 3-11, ISSN 0144-7815)  
<http://www.proc-iahs.net/367/3/2015/piahs-367-3-2015.pdf>
22. Julien, P.Y., "*Hunter Rouse Hydraulic Engineering Lecture*," **Award Lecture**, [World Environmental and Water Resources Congress](#), Austin, TX, May 20, 2015.
  23. Julien, P.Y., "*Understanding Debris Flow Mechanics to Reduce Urban Disasters*," **Invited Plenary Lecture**, Proc. 3<sup>rd</sup> Asia Conference on [Urban Disaster Reduction](#), Korean Society of Hazard Mitigation, Kintex I, Goyang, Gyeonggi-do, South Korea, November 28, 2015, pp. 32-33.
  24. Julien, P.Y., "*Sediment Sources and Yield of Mountain Watersheds*," **Keynote Address**, XXVII Latin-American Hydraulics Congress, Lima, Peru, September 28, 2016.
  25. Julien, P.Y., "*Hydrological Studies of Urban Basins*," **Conferencia Magistral (Keynote Address)**, [7Rios Fest](#), Santiago de Cali, Colombia, May 19<sup>th</sup>, 2018.
  26. Julien, P.Y., "*Recent Advances in Reservoir Sedimentation*," **Keynote Address**, [Seminar Nasional Bendungan Besar](#), National Seminar on Large Dams 2018, INACOLD, Kota Mataram, Lombok, West Nusa Tenggara, Indonesia, May 26, 2018.
  27. Julien, P.Y., "*An Engineering Perspective on Reservoir Sedimentation*," **Keynote Address**, International Conference on Dam Safety management & Engineering (ICDSME 0219), MYCOLD, Penang, Malaysia, Nov. 20, 2019.

### OTHER INVITED LECTURES

1. Frenette, M. and P.Y. Julien. *Computer modeling of soil erosion and sediment yield from large watersheds*, Invited paper in the Proceedings of the 27th Annual Convention of the Institution of Engineers, Pakistan, Peshawar, 2-6 April, 1985, 21 p. (Presented at Peshawar, Pakistan, and Cairo, Egypt.)
2. Richardson, E.V. and P.Y. Julien. *Bed forms, fine sediments, washload and sediment transport*, Invited paper, Third International Symposium on River Sedimentation ISRS-III, Jackson, Mississippi, March 31-April 4, 1986, pp. 854-874.
3. Julien, P.Y. and J.S. O'Brien, *Selected notes on debris flow dynamics*, Invited paper at the 1993 International Workshop on Debris Flow, September 6-8, Kagoshima, Japan, 1993, pp. 57-65.
4. Julien, P.Y., *Introduction to dynamics of debris flow*, Invited general report on papers related to debris flow dynamics. Proc. IAHR

- International Workshop on Debris Flow, September 6-8, Kagoshima, Japan, 1993, 5p.
5. Julien, P.Y. and J.S. O'Brien, *Rheology and modeling of mass movement deposits*, Invited paper at the Pierre Beghin International Workshop on Rapid Gravitational Mass Movements, December 6-10, 1993, Grenoble, France, pp. 167-173.
  6. Julien, P.Y., *Similitude and hydrologic scales for surface runoff*, Invited speaker at the Front Range AGU Meeting, February 14-15, 1994, NCAR, Boulder, p.9.
  7. Julien, P.Y., *Theoretically-derived regime river width*, Invited speaker at the 1994 ASCE Hydraulics Conference, Buffalo, New York, August 1-5, pp. 949-953.
  8. Julien, P.Y., *Dynamic hydrologic modeling of mountain streams*, Invited speaker at the International Workshop on Floods and Inundations Related to Large Earth Movements", IAHR, Trento, Italy, October 4-7, 1994, pp. B5.1-10.
  9. Julien, P.Y., *Similitude and hydrologic scales for surface runoff*, Invited speaker at the Front Range AGU Meeting, February 13-14, 1995, Lory Student Center, CSU, Fort Collins.
  10. Julien, P.Y., Invited co-chair for Session 9 - Frontiers in Hydraulics: Computational Hydraulics, at the Iowa Hydraulics Colloquium: Issues and Directions in Hydraulics in honor of Professor J.F. Kennedy, May 1995. (see discussion # 26).
  11. Julien, P.Y., Y. Raslan, Y.Q. Lan, and G. Berthault. *Experimental mechanics of sand stratification*, Invited speaker at the Workshop on "Structures Internes et Comportement des Suspensions Concentrées Géologiques", La Grande Motte, France, October 4-6, 1995, pp. 28.
  12. Julien, P.Y., *Runoff and Sediment Modeling with CASC2D, GIS and Radar Data*, Invited speaker at the 3<sup>rd</sup> International Conference on Hydrosience and Engineering, Cottbus/Berlin, Germany, August 31- September 3, 1998, CD-ROM, parallel 15, 31.08.1998, 16:00-18:15.
  13. Julien, P.Y., *Laboratory Experiments and Field Observations on Grain Sorting*, Invited speaker at the Conference on Granular Geomorphology, CECAM, Lyon, France, Sept., 1998, (1 p. abstract).
  14. Julien, P.Y., *How Do We Educate Our Future Rehabilitation Experts*, Invited paper from the Discussion Session Chairman at the Wetlands Engineering & River Restoration Conference, Engineering Approaches to Ecosystem restoration, Session L, ASCE, Denver, Colorado, March 23-27, 1998, pp.
  15. Julien, P.Y. and C. Leon, *Mudfloods, mudflows and debris flows - classification, rheology and structural design*, Invited paper at the International Workshop on Mudflows and debris flows, Caracas, Venezuela, November 27- December 1, 2000.

16. Julien, P.Y., *Reservoirs, Stream Restoration and Environmental River Mechanics*, Invited Presentation at the International Workshop on Instream Flow and Self-purification in Urban Stream, Korean Institute for Construction Technology, Seoul, Korea, May 9, 2002.
17. Julien, P.Y., *Watershed Erosion Modeling with CASC2D-SED*, Invited Speaker at the Korean Water Resources Corporation, KOWACO, Tae-Jon, Korea, May 14, 2002.
18. Julien, P.Y., *Recent development in sediment transport*, Invited Half-day Seminar, Universiti Sains Malaysia, Nibong Tebal, Malaysia, August 10, 2002.
19. Richard, G.A., and P.Y. Julien, "*Statistical Methods of Modeling lateral Movement of the Rio Grande*", Invited paper at the Binghampton Geomorphology Symposium, Bloomsburg, PA, October 11-13, 2002.
20. Richard, G.A. and P.Y. Julien, "*Dam Impacts and Restoration on an Alluvial River-Rio Grande, New Mexico*", Invited paper at the U.S.- Chinese Joint Workshop on Sediment Transport and Environmental Studies, Milwaukee, WI, July 21-28, 2002.
21. Julien, P.Y., Invited Speaker at the "River Rehabilitation Seminar (River M-1)", Lectures on River Rehabilitation and Riverbank Stabilization, Sunway Hotel Seberang Jaya, Penang, Malaysia, May 24-26, 2005.
22. Julien, P.Y., R. Rojas, M. Velleux and J. England, "Modeling Watershed Erosion with CASC2D", Invited Paper, Proc. of the 4th IAHR Symposium on River, Coastal & Estuarine Morphodynamics at the University of Illinois – Urbana, October 4-7, 2005, pp. 1089-1098.
23. Julien, P.Y. and J. Guo, "Velocity Profiles in Laboratory Channels and in Rivers", Special Invited Lecture, The Eleventh Asian Congress of Fluid Mechanics (11 ACFM), 22<sup>nd</sup>- 25<sup>th</sup> May, 2006, Kuala Lumpur, Malaysia, Book of Abstracts, p. 11, and paper, pp. 33-47.
24. Julien, P.Y. "Avances en la Modelacion de avenidas subitas, transporte de sedimentos y contaminantes con TREX", Invited Lecture at the Primer Seminario de Potamologia Jose Antonio Maza Alvarez, Jiutepec, Morelos, Mexico, November 20, 2008.
25. Julien, P.Y. "Analysis of Alluvial Rivers - Long-term Changes in Hydraulic Geometry", Invited Lecture, Proceedings of the International Workshop on ECORIVER21, Seoul South Korea, April 14, 2009.
26. Julien, P.Y. "Hydraulic Modeling Analysis for Abandoned Channel Restoration." Invited Speaker at the ECORIVER21 Workshop, April 12, 2011, Seoul, South Korea.
27. Julien, P.Y., "*Rheology of Hyperconcentrations*", Invited Speaker at the USSD Tailings Dams Workshop, August 24-26, 2011, Denver, CO.
28. Julien, P.Y., "*River Restoration and Management*", Invited Speaker, Session 1-A, Proc. 2012 World River Forum, Managing Rivers for People, Nature and the Future, September 20-21, 2012, Daegu, South Korea.

## CONFERENCE PAPERS and PRESENTATIONS

1. Frenette, M. and P.Y. Julien. "*Méthode simplifiée de prédiction d'érosion de bassin versant et d'apport solide en suspension dans les cours d'eau nordiques,*" Proceedings of the Second Hydrotechnical Conference CSCE-QUEBEC, Sherbrooke, 1980, pp. 408-424.
2. Julien, P.Y. and M. Frenette. "*A model for predicting suspended load in northern streams,*" Proc. 4th Annual AGU Front Range Branch Hydrology Days, Colorado State University, April 1984, pp. 119-139.
3. Frenette, M. and P.Y. Julien. "*A computer model for mapping soil erosion,*" Proceedings of the Annual Conference of the Canadian Society for Civil Engineering, CSCE, Halifax, May 23-25, 1984, pp. 543-564.
4. Julien, P.Y. and M. Frenette. "*A model for predicting suspended load in northern streams,*" Proceedings of the Annual Conference on the Canadian Society of Civil Engineering, CSCE, Halifax, May 23-25, 1984, pp. 565-585.
5. Frenette, M. and P.Y. Julien. "*Within the hydrologic cycle of a watershed. Integration of erosion processes and sediment load in mathematical models for water quality,*" Proceedings of the Canadian Hydrology Symposium, Laval University, Quebec, June 10-12, 1984, National Research Council, Canada, No. 15, Vol. 1, pp. 465-487.
6. O'Brien, J.S. and P.Y. Julien. "*Physical properties and mechanics of hyperconcentrated sediment flows,*" Proceedings of the ASCE Specialty Conference on the Delineation of landslide, Flash Flood and Debris Flow Hazards in Utah, 1985, Utah Water Research Lab. Series UWRL/G-85/03, pp. 260-279.
7. Julien, P.Y. and D.M. Hartley. "*Stability of laminar sheet flow,*" Proceedings of the Hydrology Days and Rocky Mountain Groundwater Conference, AGU, Fort Collins, April 16-20, 1985, pp. 137-144.
8. Julien, P.Y. and M. Frenette. "*Erosion de bassin et apport solide dans les cours d'eau lors de la fonte de neige,*" Proceedings of the 7th Annual Hydrotechnical Conference, CSCE, Saskatoon, Saskatchewan, May 27-31, 1985, pp. 21-40.
9. Julien, P.Y. "*Theoretical analysis of sediment particles in a Rankine combined vortex,*" Proceedings of the 7th Annual Hydrotechnical Conf., CSCE, Saskatoon, Saskatchewan, May 27-31, 1985, pp. 89-106.
10. Julien, P.Y. and M. Frenette. "*Joint deterministic and probabilistic method for modelling rainfall erosion,*" Fourth International Hydrology Symposium, Fort Collins, Colorado, July 15-17, 1985, pp. 1012-1026.
11. Julien, P.Y. and D.B. Simons. "*Sediment transport capacity equations*

- for rainfall erosion,"* Fourth International Hydrology Symposium. Fort Collins, Colorado, July 15-17, 1985, pp. 988-1002.
12. Julien, P.Y. and M. Frenette. "*Predicting washload from rainfall and snowmelt runoff,"* Proceedings of the Third International Symposium on River Sedimentation, ISRS-III, Jackson, Mississippi, March 31-April 4, 1986, pp. 1259-1265.
  13. Dawod, A.M. and P.Y. Julien. "*Analysis of daily rainfall precipitation in North Iraq,"* Proceedings of the Hydrology Days, Fort Collins, AGU, April 15-17, 1986, pp. 189-197.
  14. Julien, P.Y. and D.M. Hartley. "*Stabilité des écoulements laminaires,"* CSCE Annual Conference, Toronto, May 14-18, 1986, Session 1 3.
  15. O'Brien, J.S. and P.Y. Julien. "*Rheology of non-Newtonian fine sediment mixture,"* Proceedings of the ASCE Conference on Advancement in Aerodynamics, Fluid Mechanics and Hydraulics, Minneapolis, June 4-6, 1986, pp. 989-996.
  16. Julien, P.Y. and M. Frenette. "*Scale effects in predicting soil erosion,"* International Symposium on Drainage Basin and Sediment Delivery, IAHS, Albuquerque, NM, Aug. 4-8, 1986, pp. 253-259.
  17. Julien, P.Y. "*Recent breakthroughs and prospective modelling of soil erosion and sediment transport in Canadian streams,"* CSCE Centennial Conference, Montreal, May, 1987, pp. 535-543.
  18. Williams, D.T. and P.Y. Julien. "*On the selection of sediment transport equations,"* Proceedings of the ASCE National Conference on Hydraulic Engineering, Williamsburg, 1987, pp. 925-929.
  19. Azuero, C. and P.Y. Julien. "*Sensitivity analysis of a stability factor for riprap design,"* Proceedings of 8th Annual AGU Front Range Branch Hydrology Days, Colorado State University, Fort Collins, Colorado, April, 1988, pp. 174-184.
  20. Cline, T., A. Molinas, and P.Y. Julien. "*A Geographic Information System for obtaining and organizing watershed data and for preparing HEC-1 input files,"* Proceedings of the 8th Annual AGU Front Range Branch Hydrology Days, Colorado State University, Fort Collins, Colorado, April 1988, pp. 81-90.
  21. Julien, P.Y. "*Downstream hydraulic geometry of non-cohesive alluvial channels,"* International Conference on River Regime, Wallingford, England, May 18-20, 1988, pp. 9-16.
  22. Julien, P.Y. "*Upland erosion estimates based on rainfall depth,"* ASCE National Conference on Hydraulic Engineering, August 8-12, 1988, Colorado Springs, Colorado, pp. 364-368.
  23. Richardson, J.R. and P.Y. Julien. "*One dimensional modeling of moving rainstorms,"* International Conference on Channel Flow and Catchment Runoff, Charlottesville, Virginia, May 1989, pp. 27-35.
  24. Williams, D.T. and P.Y. Julien. "*Examination of stage-discharge relationships of compound/composite channels,"* International

- Conference on Channel Flow and Catchment Runoff, Charlottesville, Virginia, May 1989, pp. 478-488.
25. Julien, P.Y., "*Prospective analysis of alluvial channel processes and geometry*," International ASAE-CSAE Summer Meeting, Québec, Canada, June 1989, Paper 892105, 9p.
  26. Simons, R.J., R.A. Muser, P.Y. Julien and D.B. Simons. "*Modeling resistance to flow in open channels*," International ASAE-CSCE Summer Meeting, Québec, Canada, June 1989, Paper 892106, 23p.
  27. Julien, P.Y. "*Géométrie hydraulique des cours d'eau à lit alluvial*," Proceedings B-Fluvial Hydraulics, 23rd IAHR Congress, Ottawa, Canada, August 1989, pp. B-9-16.
  28. Woo, H.S. and P.Y. Julien, "*Mathematical models for turbulent shear stress in sediment-laden flows*," Proceedings of the International Symposium on Sediment Transport Modeling, ASCE, New Orleans, August 1989, pp. 203-208.
  29. Julien, P.Y. "*Laboratory analysis of hyperconcentrations*," Proceedings of the International Symposium on Sediment Transport Modeling, ASCE, New Orleans, August 1989, pp. 681-686.
  30. Julien, P.Y. "*Soil losses from upland areas*," Proceedings of the Fourth International Symposium on River Sedimentation, Beijing, China, 1989, Vol. 1, pp. 82-91.
  31. Julien, P.Y. and M. Frenette. "*Mapping erosion losses from large watersheds*," Proceedings of the Fourth International Symposium on River Sedimentation, Beijing, China, 1989, Vol. 1, pp. 92-99.
  32. Stein, O.R. and P.Y. Julien. "*Physical modelling of headcut migration*," Proceedings of 10<sup>th</sup> Annual AGU Front Range Branch Hydrology Days, Fort Collins, Colorado, April 1990, pp. 162-172.
  33. Saghafian, B. and P.Y. Julien. "*Resistance equations for laminar sheet flow*," Proceedings of 10th Annual AGU Front Range Branch Hydrology Days, Fort Collins, Colorado, April 1990, pp. 173-184.
  34. May, D. and P.Y. Julien, "*Analysis of raingage network resolution with spatial statistics*," ASCE Specialty Conference on Watershed Management, Durango, Colorado, July 1990, pp. 38-47.
  35. Marcus, K.B. and P.Y. Julien, "*Two-dimensional modeling of overland flow*," International Symposium on the Hydraulics/Hydrology of Arid Lands, ASCE, San Diego, August 1990, pp. 256-261.
  36. Stein, O.R., and P.Y. Julien, "*Sediment concentration measurement below small headcuts*," National Conference on Hydraulic Engineering, ASCE, San Diego, August 1990, pp. 293-298.
  37. Gonzalez del Tanago, M., P.Y. Julien, and J. Redondo, "*Influencia de la escala de trabajo en la estimacion de la erosion mediante el modelo USLE*," Reunion Nacional de Geomorfologia, Teruel, Spain, September 1990, pp. 607-617.
  38. Berthault, G., F. Crouzel, and P.Y. Julien, "*Signification des dépôts*

- séquentiels: conséquences sur l'interprétation des règles de la sédimentologie,*" 3e Congrès Français de Sédimentologie, Brest, France, November 1991, pp. 33.
39. Stein, O.R., and P.Y. Julien, "*Measurement of rill erosion sediment detachment,*" ASAE Summer Meeting, Albuquerque, New Mexico, June 1991, Paper # 912086, 8p.
  40. Julien, P.Y., "*Laboratory experiments on sand grain sorting,*" Grain Sorting Seminar, Ascona, October 1991, pp. 309-404.
  41. Julien, P.Y. and G. Berthault, "*Expériences fondamentales de stratification,*" 4e Congrès Français de Sédimentologie, Livre des Résumés, ASF, Lille, France, November 17-19, 1993, pp. 191-192.
  42. Julien, P.Y., "*Theoretically-derived regime river width,*" National Conference on Hydraulic Engineering, ASCE, Buffalo, N.Y., August 1-5, 1994, Volume 2, pp. 949-953.
  43. Julien, P.Y., Y.Q. Lan, Y. Raslan, and G. Berthault, "*Experimental mechanics of sand stratification,*" Publication ASF No. 22, 5e Congrès Français de Sédimentologie, Aix-les-Bains, April 24-26, 1995, p. 84.
  44. Julien, P.Y., "*Teaching sedimentation in the 21st century,*" Sixth Federal Interagency Sedimentation Conference, Sedimentation Technologies for Management of Natural Resources in the 21st Century, Las Vegas, March 10-14, 1996, Vol. 2, pp. VI-16-21.
  45. Noss, D.K. and P.Y. Julien. "*Calculating upland erosion using GIS-GRASS,*" Proceedings of the Hydrology Days, AGU, Fort Collins, April 15-18, 1996, pp. 371-382.
  46. Williams, D.T. and P.Y. Julien, "*Selection of sediment transport relations,*" Proceedings of the North American Water and Environment Congress and Destructive Water, ASCE, Anaheim, California, June 22-28, 1996, paper available on CD-ROM, 6p.
  47. Frenette M. and P.Y. Julien, "*Physical processes governing reservoir sedimentation,*" Proceedings of the International Conference on Reservoir Sedimentation, Volume 1, Colorado State University, Fort Collins, Colorado, September 11-16, 1996, pp. 121-142.
  48. Julien, P.Y., Y.Q. Lan and Y. Raslan, "*Experimental mechanics of sand stratification,*" Proceedings of the Third International Conference on Powders and Grains, Durham, North Carolina, May 18-22, 1997, pp. 487-490.
  49. Stein, O.R., P.Y. Julien and C.V. Alonso, "*Headward advancement of incised channels,*" Conference on Management of Landscapes Disturbed by Channel Incision: Stabilization, Rehabilitation, and Restoration, May 20-22, 1997, Oxford, Mississippi, pp. 497-502.
  50. Molnar, D.K., P.Y. Julien and B.E. Johnson, "*Advances in surface runoff modeling on Goodwin Creek,*" Conference on Management of Landscapes Disturbed by Channel Incision: Stabilization, Rehabilitation, and Restoration, May 20-22, 1997, Oxford Mississippi, pp. 621-626.

51. Johnson, B.E., P.Y. Julien and D.K. Molnar, "*Advances in soil erosion modeling on Goodwin Creek*," Conference on Management of Landscapes Disturbed by Channel Incision: Stabilization, Rehabilitation, and Restoration, May 20-22, 1997, Oxford Mississippi, pp. 1100-1105.
52. Doe III, W.W., P.Y. Julien and F.L. Ogden, "*Maneuversheds and watersheds: modeling the hydrologic effects of mechanized training on military lands*," AWRA/UCOWR Symposium on Water Resources Education, training, and practice: Opportunities for the Next Century, Keystone, Colorado, June 29 to July 3, 1997, pp. 767-776.
53. Julien, P.Y. and J.S. O'Brien, "*On the importance of mud and debris flow rheology in structural design*," First International Conference on Debris-Flow Hazards Mitigation: Mechanics, Prediction, and Assessment, ASCE, San Francisco, August 7-9, 1997, pp. 350-359.
54. O'Brien, J.S. and P.Y. Julien, "*On the importance of mudflow routing*," First International Conference on Debris-Flow Hazards Mitigation: Mechanics, Prediction, and Assessment, ASCE, San Francisco, August 7-9, 1997, pp. 677-686.
55. Julien, P.Y., S. Kawai and D. J. Anthony, "*Grain sorting in meander bends*," XXVII IAHR Congress, San Francisco, August 10-15, 1997, pp. 1426-1432.
56. Julien, P.Y., "*Rainfall events and surface runoff modeling*," The Ninth World Water Congress, No. 9, Vol. 1, IWRA, September 1-6, 1997, Montréal, Canada, Extended Abstract pp. 133 and 8p. paper.
57. Johnson, B.E., P.Y. Julien and C.C. Watson, "*Development of a storm-event based two-dimensional model (CASC2D-SED)*," First Federal Interagency Hydrologic Modeling Conference, Las Vegas, April 19-23, 1998, Section 3, pp. 39-46.
58. Doe III, W.W., P.Y. Julien, F.L. Ogden and B.E. Johnson, "*Spatially distributed modeling of the hydrologic effects of mechanized maneuvers on military training lands*," First Federal Interagency Hydrologic Modeling Conference, Las Vegas, April 19-23, 1998, Section 8, pp. 27-34.
59. Kodoatie, R.J., D.B. Simons, P.Y. Julien and M.L. Albertson, "*Prediction of sediment transport rate in irrigation canals using modified Laursen technology*," Challenges Facing Irrigation and Drainage in the New Millennium, Proc., 2000 USCID International Conference, Vol. II, June 2000, pp. 237-258.
60. Albertson, M.L., C.C. Baggs, L.J. Harrison, P.Y. Julien, J. Liou, R.A. Mussetter, E.V. Richardson, D.B. Simons, and W.A. Thomas, "*Resistance coefficients use and misuse in assessing average velocities in open alluvial channels*," ASCE Specialty Conference, Seattle Washington, August 8-11, 1999.
61. Johnson, B.E. and P.Y. Julien, "*The two-dimensional upland erosion model CASC2D-SED*" Proc. Intl Conference on the

- Hydrology-Geomorphology Interface: Rainfall, Floods, Sedimentation, Land Use, IAHS Publication no. 261 December 2000, pp. 107-125.
62. Julien, P.Y. and C.A. Leon, "*Mud floods, mudflows and debris flows: classification, rheology and structural design*", Proc. International Seminar on the Debris-flow disaster of December 1999, Institute of Fluid Mechanics, University of Central Venezuela, Caracas, Venezuela, 2000.
  63. Julien, P.Y., "*Rivers bring geomorphologists and engineers together,*" in *Applying Geomorphology to Environmental Management*, Edited by D.J. Anthony et al., Water Resources Publications, 2001, pp. 383-395.
  64. Saghafian, B., H.M. Rajaie and P.Y. Julien, "*A spatial travel-time method for watershed routing,*" 4<sup>th</sup> International Conference on Integrating GIS and Environmental Modeling (GIS/EM4) Problems, Prospects and Research Needs, Banff, Alberta, Canada, September 2-8, 2000, pp.
  65. Rojas, R. and P.Y. Julien, "*Modeling sediment transport with CASC2D-SED,*" Proceedings of the 22<sup>nd</sup> Hydrology Days, Fort Collins, Colorado, April 1-4, 2002, pp. 233-244.
  66. Julien, P.Y., B.P. Bledsoe, and C.C. Watson, "*Fate and transport of metals and sediment in surface waters,*" Tailings and Mine Waste, '02, Balkema Publishers, Proceedings of the 9<sup>th</sup> International conf. on tailings and mine waste, Ft. Collins, CO, January 2002, pp. 17-20.
  67. Julien, P.Y. and G. Richard, "*Reservoirs, Stream Restoration and Environmental River Mechanics,*" Invited Paper at the International seminar on instream flow and self-purification in urban stream, Korean Institute for Construction Tech., Seoul, Korea, May 9, 2002, pp. 3-26.
  68. Julien, P.Y. "*Recent Advances in Sedimentation and River Mechanics,*" Proceedings of the National Conference of the Korean Water Resources Association, May 11, 2002, Incheon, Korea, pp. 3-16.
  69. Julien, P.Y. and R. Rojas, "*Watershed Erosion Modeling with CASC2D-SED,*" Proceedings of the National Conference of the Korean Water Resources Association, May 11, 2002, Incheon, Korea, pp. 27-40.
  70. Richard G. and P.Y. Julien, "*Dam Impacts and Restoration on an Alluvial River - Rio Grande, New Mexico,*" - US-Chinese Joint Workshop on Sediment Transport and Environmental Studies, July 21-28, 2002, Milwaukee, Wisconsin, pp.
  71. Rojas, R. and P.Y. Julien, "*Grid resolution effects on upland erosion predictions,*" Federal Interagency Hydrologic Conference, Las Vegas, Nevada, Session 10A, July 28-August 1, 2002.
  72. Julien, P.Y., "*Computer Modeling of Upland Erosion,*" Paper at the 13th APD-IAHR Congress, Singapore, August 6-8, 2002, pp. 475-483.
  73. Guo, J. and P.Y. Julien, "*Boundary Shear Stress in Smooth Rectangular Open-channels,*" Proceedings of the 13th APD-IAHR

- Congress, Singapore, August 6-8, 2002, pp.76-86.
74. Guo, J. and P.Y. Julien, "*Modified Log-wake Law in Smooth Rectangular Open -channel Flows,*" Proceedings of the 13th APD-IAHR Congress, Singapore, August 6-8, 2002, pp. 87-99.
  75. Julien, P.Y., "*Peak Flow Forecasting with CASC2D and Radar Data,*" Second International Conference on Flood Defence, Beijing, September 2002, pp. 23-33.
  76. Julien, P.Y. and R.N. Meroney, "*History of Hydraulics, Hydrology and Fluid Mechanics at Colorado State University,*" Proc. of the AGU Hydrology Days, Fort Collins, March 31-April 2, 2003, 12p.
  77. Downer, C.W., J.Jorgeson, F.L. Ogden, P. Julien, W.D. Martin, E. Eadris, R.K. Harmon, E. Meselhe and J. Nelson, "*The case for physically-based distributed hydrologic modeling approaches for the US Army Corps of Engineers Civil Works Projects.*" US. Army Corps of Engineers Hydraulics and Hydrologic Conference Watershed System 2003, Portland, Oregon, May13-15, 2003, 10p.
  78. Julien, P.Y., R. Rojas, M. Velleux, B. Bledsoe and C. Watson, "*Fate and Transport of Metals and Sediment in Surface Water,*" Poster presented at the EPA Hazardous Substance Research Center Meeting, Colorado School of Mines, Golden, Colorado, May 19-20, 2003.
  79. Julien, P.Y. and R.N. Meroney, "*History of Hydraulics and Fluid Mechanics at Colorado State University,*" Proc. 2<sup>nd</sup> Annual Joint Symposium between CSU Faculty and Korean Alumni, Seoul National University, Seoul, South Korea, May 25-28, 2003, pp. 131-145.
  80. Julien, P.Y. and R. Rojas, "*Fate and Transport of Metals and Sediment in Surface Waters,*" Joint Conference of the 9<sup>th</sup> Billings Land Reclamation Symposium and the 20<sup>th</sup> Society of Mining and Reclamation, Billings Montana, June 3-6, 2003, p.1058.
  81. Julien, P.Y. and R.N. Meroney, "*History of Hydraulics and Fluid Mechanics at Colorado State University,*" Proc. EWRI World Water and Environmental Resources Congress, Philadelphia, June 2003, 8 p.
  82. Guo J., P.Y. Julien and R. N. Meroney, "*Modified Log-Wake law for Zero Pressure Gradient Boundary Layers,*" Proc. International Conference on Port and Maritime R & D and Technology, September 2003, Singapore, Vol. I, pp. 125-141.
  83. Velleux, M., R. Rojas-Sanchez and P. Julien, "*Watershed Transport of Mine Wastes,*" Proc. Hydrology Days, Fort Collins, March 10-12, 2004, 1p. Abstract.
  84. Guo, J., C. Ming, M. Qian and P. Julien, "*Application of the Modified Log-wake Law to Non-uniform Open-channel Flows,*" International Symposium of River Sedimentation, 9<sup>th</sup> ISRS, October 18-21, Yichang, China, 2004, pp. 1197-1203.
  85. Kane, B. and P.Y. Julien, "*Specific Degradation as function of Watershed Characteristics and Climatic Parameters,*" Mali Symposium

- on Applied Science, Bamako, Mali, August 2-5, 2004, on web.
86. Novak, S. and P.Y. Julien, "*Updated Data base of the Middle Rio Grande,*" New Mexico, Hydrology Days, March 7, 2005, pp. 180-186.
  86. Jay, F. and P.Y. Julien, "*Sediment Transport Analysis of the Rio Grande, New Mexico,*" Hydrology Days, March 9, 2005, pp. 97-102.
  87. Ji, U. and P.Y. Julien, "*The Impact of Typhoon Maemi on the Nakdong River, South Korea,*" Hydrology Days, March 7, 2005, pp. 103-110.
  88. England, J., P.Y. Julien, M.L. Velleux and J.A. Smith, "*Distributed Modeling of Extreme Floods on Large Watersheds,*" World Water and Environmental Resources Congress, ASCE/EWRI, Anchorage Alaska, May 15-19,2005. (On-line Proc.).
  89. Shin, H.S., and P.Y. Julien, "*Developing a modified GCUH based on the geomorphic characteristics of Korean mountain regions,*" Hydrology Days, March 2006, Ft. Collins, (1p. Abstract presented March 22).
  90. Ji U., and P.Y. Julien, "*Sedimentation Problems at the Nakdong River Estuary Barrage and retrofitting design for the Gupo bridge pier on the Lower Nakdong River,*" Hydrology Days, March 20-22, 2006, Fort Collins, (1p. Abstract presented March 20).
  91. England, J., M. Velleux and P.Y. Julien, "*TREX Watershed Model Developments and Applications: Extreme Floods and Watershed Contaminant Transport and Fate,*" 8<sup>th</sup> Federal Interagency Sedimentation Conference and 3<sup>rd</sup> Federal Interagency Hydrologic Modeling Conference, Reno, NV, April 2-6, 2006. Poster and demo presentation. Book of Abstracts, p.169.
  92. Montoya, J., F. Frances and P.Y. Julien, "*Developing a New Geomorphological Distributed Model - Application to Goodwin Creek Experimental Catchment,*" submitted to the European Geosciences Union, General Assembly 2006, Vienna, Austria, 02 – 07 April 2006.
  93. Guo, J. and P.Y. Julien, "*Application of modified log-wake law in open channels,*" World Water and Environmental Resources Congress, ASCE/EWRI, Omaha, Nebraska, May 22-26, 2006. (On-line Proc.). 0-7844-0856-4, 2006, NA pp. (Barcode: RMI MK31591).
  94. Montoya, J.J., F. Frances, J.I. Velez and P.Y. Julien, "*Desarrollo de un modelo distribuido dede produccion, transporte y depositacion de sedimentos. aplicacion en una cuenca experimental,*" XXII Congreso latinoamericano de hydraulica, ciudad guayana, IAHR, Venezuela, Octubre 2006.
  95. Julien, P.Y., "*CASC2D-SED/TREX Model Development and Applications - Snowmelt Modeling and Grid Scaling,*" USEPA Metals Fate and Transport Modeling Workshop, Region 8 Office, Denver, Colorado, February 13-14, 2007.
  96. Velleux. M., P.Y. Julien and J.F. England, "*Simulation of Watershed-scale Metals Transport:Applications to California Gulch,*" USEPA Metals Fate and Transport Modeling Workshop, Region 8 Office,

- Denver, Colorado, February 13-14, 2007.
97. England, J.F., M. Velleux and P.Y. Julien, "*Simulating Extreme Storms, Implications for Modeling Transport at Different Spatial Scales*," USEPA Metals Fate and Transport Modeling Workshop, Region 8 Office, Denver, Colorado, February 13-14, 2007.
  98. Shin, Y.H. and P.Y. Julien, "*Channel Adjustment Downstream of the Hapcheon Re-regulation Dam in South Korea*," Hydrology Days, March 19-21, 2007, Ft. Collins, CO (1p. Abstract presented on March 19).
  99. Larsen, A.K. and P.Y. Julien, "*Hydraulic Modeling Analysis of the Middle Rio Grande - Escondida Reach, New Mexico*," Hydrology Days, March 19-21, 2007, Fort Collins, Colorado (1p. Abstract presented on March 19).
  100. Friesen, N.I., J. G. Duan and P.Y. Julien, "*Celerity and amplification/attenuation fo supercritical flow waves*," Hydrology Days, March 19-21 , 2007, Fort Collins, Colorado (1p. Abstract presented on March 19).
  101. Kim, H.S., P.Y. Julien and K.T. Yum, "*Soil Erosion Modeling using RUSLE and GIS on the IMHA Watershed*," Annual Conference of the Korean Water Resources Association, PyeongChan, Kangwon Province, South Korea, May 17-18, 2007, pp. 126-131.
  102. Julien, P.Y., G. Richard and J. Albert, "*River Restoration and Environmental River Mechanics*," Proceedings of the 3<sup>rd</sup> International Workshop on River Environment, KINTEX, Seoul, South Korea, April 30, 2007, pp. H1-22. (In Korean), also pp. E1-24.
  103. Park, S.K., P.Y. Julien, U. Ji, T.R. Chang and B.Y. Park, "*Retrofitting Design and Physical Modeling for Pier-Scour Protection*," Proceedings of the 2007 World Environmental and Water Resources Congress, May 15-19, 2007, Tampa, Florida, VA: ASCE, 0-7844-0927-7, 2007, NA
  104. Guo, J., P.Y. Julien and K. Kerényi "*The Law of the Wall: Buffer layer and Roughness Effects*", Fifth International Symposium on Environmental Hydraulics, Tempe, Arizona, Dec. 4-7, 2007, p. 50.
  105. Ji, U., P.Y. Julien, S.K. Park, W.K. Yeo and W.M. Lee, "*Sediment Control Methods in the Upstream Channel of the Nakdong River Estuary Barrage*," Fifth International Symposium on Environmental Hydraulics, Tempe, Arizona, December 4-7, 2007.
  106. Shah-Fairbank, S. P.Y. Julien and J. Guo "*Applicability of the Modified Einstein Procedure*". Hydrology Days, March 26-28, 2008, Fort Collins, Colorado (1p. Abstract and presentation by Seema on 3/28).
  107. Halgren, J, P. Julien and M. Velleux "*Improved Graphical Representation of CASC2D-TREX results*", Hydrology Days, Fort Collins, Colorado, March 26-28 , 2008.
  108. Halgren, J., S. Shah-Fairbank, P.Y. Julien, M. Velleux and J. England. "*Hydrology, Sediment and Contaminant Modeling*", Poster presented at the Global Water Colloquium, Hilton, Fort Collins, Colorado, March 25,

- 2008.
109. Shah-Fairbank, S., P.Y. Julien and M. Remillard, "*Hydraulic Modeling Analysis of the Middle Rio Grande 1918-2002, Galisteo Reach, Galisteo Creek to Arroyo Tonque, New Mexico*" Poster presented at the Global Water Colloquium, Hilton, Fort Collins, Colorado, March 25, 2008.
  110. Julien, P.Y., M. Velleux, J.F. England and J. Halgren, "*Advances in Flashflood, sediment and contaminant modeling with TREX*", Lecture notes of the Primer Seminario de Potamologia Jose Antonio Maza Alvarez, Jiutepec, Morelos, Mexico, del 19-21 de Noviembre, 2008.
  111. Halgren, J. and P.Y. Julien, "*Conceptual Soil Moisture Accounting in a Physics-based Hydrology Model: A Hybrid Approach*", Hydrology Days, March 26-27, 2009, Fort Collins, Colorado (1p. Abstract and presentation by James).
  112. Kim, J., Ku. H., Shah-Fairbank, S.C. and P.Y. Julien, "*Cheongmi Stream Hydraulic Modeling Analysis*", Hydrology Days, March 26-27, 2009, Fort Collins, Colorado (1p. Abstract and presentation by Jaehoon and Hyeyun).
  113. Shafie, A. and P.Y. Julien, "*Extreme Flood Event: Case Study of Johoor Flood of December 2006 and January 2007, Malaysia*", Hydrology Days, March 26-27, 2009, Fort Collins, Colorado (1p. Abstract and presentation by Atikah).
  114. Paris, A., A. Armanini and P.Y. Julien, "*Resistance to Flow for Liquid-granular Flows in Steep Channels*" Hydrology Days, March 26-27, 2009, Fort Collins, Colorado (1p. Abstract and presentation by James).
  115. Julien, P.Y., S. Shah-Fairbank and J. Halgren, "*Hydrologic and Environmental Modeling of Watersheds*", Presentation at the Center for Geosciences CG/AR Review Meeting, Fort Collins, March 11, 2009.
  116. Julien, P.Y. J. Halgren and S. Shah-Fairbank, "*Hydrologic and Environmental Modeling of Watersheds*", Poster for the Center for Geosciences CG/AR Review Meeting, Fort Collins, March 10-11, 2009.
  117. Julien, P.Y. "*Modeling Hydrology, Sediment and Contaminant Transport with TREX*", Seminar at Pusan National University, July 8, 2009. (handouts 14p.)
  118. Julien, P.Y. "*Sediment-related Disasters*", Presentation at the Disaster Risk Reduction Workshop, Universitas Gadjah Mada, Yogyakarta, July 24, 2009.
  119. Anderson, K., S. Shah-Fairbank, A. Paris and P.Y. Julien "*Hydraulic Modeling Analysis of the Middle Rio Grande 1918-2008*" Poster for the REU Program, Colorado State University, July 2009.
  120. An, S.D., and P.Y. Julien, "*Study on Density Currents in Stratified Reservoirs*", Hydrology Days, March 22-24, 2010, Fort Collins, Colorado (1p. Abstract and presentation 3-24 by Sang Do).
  121. Kim, J., and P.Y. Julien, "*Cheongmi Stream Hydraulic Modeling*

- Analysis*", Hydrology Days, March 22-24, 2010, Fort Collins, Colorado (1p. Abstract and presentation 3-24 by Jaehoon)
122. Bernedo-Sanchez, C., and P.Y. Julien, "*Dam Breach Analysis for a Tailings Storage Facility*", Hydrology Days, March 22-24, 2010, Fort Collins, Colorado (1p. Abstract and presentation 3-24 by PJ).
  123. Kositgittiwong, D., C. Chinnarasri, P.Y. Julien, J.F. Ruff and R.N. Meroney, "*Multiphase Flow Models for 2D Numerical Modeling of Flows over Spillways*", The Third International Junior Researcher and Engineer Workshop on Hydraulic Structures, IJREWS-10, Edinburgh, Scotland, UK, May 2-4, 2010, 8p.
  124. Jun, K., C. Jang, B. Jun and P.Y. Julien, "*A Study on Model Development for Analysis on debris Flow*", Poster at Hydrology Days, March 22-24, 2010, Fort Collins, Colorado.
  125. J. Halgren and P.Y. Julien, "*Hydrologic and Environmental Modeling of Watersheds*", Poster at the CG/AR Annual Review, March 30-31, 2010, Fort Collins, Colorado.
  126. Halgren J. and P.Y. Julien, "*Conceptual Soil Moisture Modeling in a Physics-Based Surface Hydrology Model: A Hybrid Approach*", Presentation at the National Groundwater Association, NGWA, Denver, Colorado, April 11-15, 2010.
  127. P.Y. Julien, "Prospective Impact of Climate Change on Rivers in the USA, Asia and Iceland", Presentation at the College of Engineering, University of Iceland, Reykjavik, June 25, 2010.
  128. P.Y. Julien, J. Halgren and A. Steininger. "*Hydrologic and Environmental Modeling of Watersheds*", Presentation and Poster at the CG/AR Annual Review, March 8-9, 2011, Fort Collins, Colorado.
  129. Abdullah, J. and P.Y. Julien, "*Determination of Distribution Function Models for Annual Rainfall at Hulu Langat, Selangor, Malaysia*", Hydrology Days, March 21-23, 2011, Fort Collins, Colorado (1p. Abstract and presentation by Jazuri).
  130. Muhammad, N.S. and P.Y. Julien, "*Spatial Distribution of Rainfall Events in Selangor, Malaysia*", Hydrology Days, March 21-23, 2011, Fort Collins, Colorado (1p. Abstract and presentation by Shazwani).
  131. Kim, J. and P.Y. Julien, "*Mangyeong River Modeling Analysis*", Hydrology Days, March 21-23, 2011, Fort Collins, Colorado (1p. Abstract and presentation by Jaehoon).
  132. An S.D. and P.Y. Julien, "*Numerical Simulation of Intrusive Gravity Currents*", Hydrology Days, March 21-23, 2011, Fort Collins, Colorado (1p. Abstract and presentation by Sangdo).
  133. An S.D. and P.Y. Julien, "*Interflow Dynamics of Turbid Density Currents in Thermally Stratified Imha Reservoir, S. Korea*", Hydrology Days, March 21-23, 2011, Fort Collins, Colorado (1p. Abstract and presentation by Sangdo).
  134. Park, K. and P.Y. Julien, "*Restoration of Four Rivers in Korea*",

- Hydrology Days, March 21-23, 2011, Fort Collins, Colorado (1p. Abstract and presentation by Kiyoung).
135. Julien, P.Y., "*Hydraulic Modeling Analysis for Abandoned Channel Restoration: Cheongmi and Mangyeong Streams*", Proceedings of the International Workshop of ECORIVER21, Seoul, South Korea, April 12, 2011, 16p.
  136. Luis, J., The, S.H., Mohd Sidek, L., M.N.B.M. Desa and P.Y. Julien, "*Soil Erosion Modeling using RUSLE and GIS at Cameron Highlands, Malaysia*", Proc. of the 3<sup>rd</sup> International Conference on Managing Rivers in the 21<sup>st</sup> Century, Rivers 2011, December 6-9, 2011, Penang, Malaysia, December, 11p.
  137. Bernedo, C., P.Y. Julien and A. Leon, "Dam Breach Analysis for a Tailings Storage Facility (TSF)", Water Resources Congress 2011, pp 2216-2224.  
<http://ascelibrary.org/doi/pdf/10.1061/41173%28414%29231>
  138. Abdullah, J. and P.Y. Julien, "*Distributed Hydrologic Modeling of Extreme Events on the Lui Watershed in Malaysia*", Hydrology Days, March 21-23, 2012, Fort Collins, Colorado (1p. Abstract and presentation by Jazuri).
  139. Kim, J. and P.Y. Julien, "*Distributed Hydrologic Modeling of Flash Floods in South Korean Mountains*," Hydrology Days, March 21-23, 2012, Fort Collins, Colorado (1p. Abstract and presentation by Jaehoon).
  140. Park, K. and P.Y. Julien, "*Sustainable Channel Width Analysis for the Middle Rio Grande, NM*", Hydrology Days, March 21-23, 2012, Fort Collins, Colorado (1p. Abstract and presentation by Kiyoung).
  141. Bender, T. and P.Y. Julien, "*Overbank Flow Analysis of the Bosque Reach of the Middle Rio Grande*," Hydrology Days, March 21-23, 2012, Fort Collins, Colorado (1p. Abstract and presentation by Ted).
  142. Muhammad, N.S., and P.Y. Julien, "*Conditional Probability of Consecutive Rainy Days during Monsoons in Malaysia*", Hydrology Days, March 21-23, 2012, Fort Collins, Colorado (1p. Abstract and presentation by Shazwani).
  143. Steininger, A. and P.Y. Julien, "*Dam Overtopping and Flood Routing with the TREX Watershed Model*", Hydrology Days, March 21-23, 2012, Fort Collins, Colorado (1p. Abstract and presentation by Andy).
  144. Julien, P.Y., "*Lateral Migration of Alluvial Channels*", Invited Lecture at Yangzhou University, April 2012, 58 slides.
  145. Julien, P.Y., "*Advances in Modeling Runoff, Erosion and Contaminant Transport*", Invited Lecture, Department of Civil Engineering, Yangzhou, University, P.R. China, April 2012, 44 slides.
  146. Julien, P.Y., "*River Restoration and Management*", Proc. 2012 World River Forum, Managing Rivers for People, Nature and the Future, Daegu, South Korea, September 21, 2012, pp. 89-105.
  147. Luis, J., Mohd Sidek, L. and P.Y. Julien, "*Sustainability of Hydropower*

- Reservoir as Flood Mitigation*", Langkawi, Malaysia, Nov. 5-9, 2012
148. Luis, J., Mohd Sidek, L., M.N.B.M. Desa, and P.Y. Julien, "Challenge in Running Hydropower as a Source of Clean Energy: Ringlet Reservoir, Cameron Highlands Case Study", Proc. National Graduate Conference, Universiti Tenaga Nasional, Putrajaya Campus, Nov. 8-10, 2012, 9p.
  149. Owen, T. and P.Y. Julien, "Geomorphic Analysis of the Middle Rio Grande – Elephant Butte Reach, New Mexico", Hydrology Days, March 25-27, 2013, Fort Collins, Colorado (1p. Abstract and presentation by Tracy).
  150. Muhammad, N.S., and P.Y. Julien, "Daily Rainfall Simulations and return Period Calculations for Malaysian Monsoons", Hydrology Days, March 25-27, 2013, Fort Collins, Colorado (1p. Abstract and presentation by Shazwani).
  151. Abdullah, J. and P.Y. Julien, "Distributed Monsoon Flood Modeling at Kota Tinggi, Malaysia", Hydrology Days, March 25-27, 2013, Fort Collins, Colorado (1p. Abstract and presentation by Jazuri).
  152. Park, K. and P.Y. Julien, "Mechanics of Sediment Plug Formation in the Middle Rio Grande, NM", Hydrology Days, March 25-27, 2013, Fort Collins, Colorado (1p. Abstract and presentation by Kiyong).
  153. Anderson, K.E. and P.Y. Julien, "Data Processing of the Middle Rio Grande – Elephant Butte Reach, New Mexico", Hydrology Days, March 25-27, 2013, Fort Collins, Colorado (1p. Abstract and presentation by Katharine).
  154. Luis, J., Mohd Sidek, L., M.N.B.M. Desa, and P.Y. Julien, "Sustainability of Hydropower as Source of Renewable and Clean Energy", Proc. 4<sup>th</sup> Intl. Conf. on Energy and Environment, IOP Conference Series: Earth and Environmental Sciences, 16, 2013, 5p. doi:10.1088/1755-1315/16/1/012050
  155. Kim, J. and P.Y. Julien, "Two-dimensional Modeling of the Duksan Creek Flashflood", Proc. of the 2<sup>nd</sup> International Workshop on River Research Based on Experimental Substantiation – River Morphology and Biological Habitat. KICT-River Experiment Center, Andong, South Korea, August 8, 2013, pp. 11-16.
  156. Julien, P.Y. and Olga A. Martyusheva, "SMART Water Grids and Network Vulnerability", Proc. of the SMART Water Grid International Conference November 2013, Book of Abstracts Edited by I.W. Ko, G. Choi, S.J. Byeon and L.G. Ler. Songdo ConvensiA, Incheon, South Korea, 6p, paper on Proc. CD + Abstract pp. 14-15.
  157. Rainwater, J and P.Y. Julien, "Review of Sediment Plug Factors, Middle Rio Grande NM", Hydrology Days, March 24-26, 2014, Fort Collins, Colorado (1p. Abstract and presentation by Jon).
  158. Julien, P.Y., "Analysis of Extreme Floods in Malaysia", Keynote paper in the Proc. of the International Symposium on Flood Research and Management, ISFRAM 2014, Kota Kinabalu, Sabah, Borneo, September 28-October 1, 2014 (16p. paper on the Conference CD and published

- by Springer Verlag, Singapore in 2014)  
DOI 10.1007/978-981-287-365-1\_1.
159. Muhammad, N.S. and P.Y. Julien, "Multiday Rainfall Simulations for Malaysian Monsoons" Proc. of the International Symposium on Flood Research and Management, ISFRAM 2014, Kota Kinabalu, Sabah, Borneo, September 28-October 1, 2014 (10p. paper on the Conference CD and published by Springer Verlag, Singapore in 2014)  
DOI 10.1007/978-981-287-365-1\_10
  160. Abdullah, J., Muhammad, N.S. and P.Y. Julien, "Hydrological Modeling in Malaysia", Proc. of the International Symposium on Flood Research and Management, ISFRAM 2014, Kota Kinabalu, Sabah, Borneo, September 28-October 1, 2014 (11p. paper on the Conference CD and published by Springer Verlag, Singapore in 2014)  
DOI 10.1007/978-981-287-365-1\_9
  161. Julien, P.Y., "Downstream Hydraulic Geometry of Alluvial Rivers", keynote paper in Sediment Dynamics from the Summit to the Sea, Proceedings of the ICCE/IAHS Symposium held in New Orleans, Louisiana, USA, 11-14 December 2014, IAHS Publ. 367, pp. 3-11. ISSN 0144-7815.
  162. Lai, K. and P.Y. Julien, "Flood Management in Malaysia: SMART", Hydrology Days, March 23-25, 2015, Fort Collins, Colorado (1p. Abstract and presentation by Kennard).
  163. Kim, H.Y. and P.Y. Julien, "Optimization of Sangju Weir operations to minimize sedimentation problems", Hydrology Days, March 23-25, 2015, Fort Collins, Colorado (1p. Abstract and presentation by Hwa Young).
  164. Ndolo-Goy, P. and P.Y. Julien, "GIS-Based Soil Erosion Modeling and Sediment Yield of the N'djili River Basin, Democratic Republic of Congo," Hydrology Days, March 23-25, 2015, Fort Collins, Colorado (1p. Abstract and presentation by Patrick).
  165. Lee, J.H. and P.Y. Julien, "Teleconnections between the ENSO and Precipitation Patterns over South Korea," Hydrology Days, March 23-25, 2015, Fort Collins, Colorado (1p. Abstract and presentation by Jai Hong).
  166. Julien, P.Y. "Prospective Impact of Climate Change on Rivers and Water Resources," Seminar of North America Water Experts, Session SE-00140 of the 7<sup>th</sup> World Water Forum, April 15<sup>th</sup>, 2015, Hotel Hyundai, Gyeongju, South Korea.
  167. Julien, P.Y. "Dredging in the US and South Korea", K-Water Seminar at D-Arc, April 16<sup>th</sup>, 2015, Daegu, South Korea.
  168. Julien, P.Y. "Watershed Processes and Modeling", 93 slides for the Course on Mecanica del Rio y Transporte de Sedimentos, Lima, Peru, January 4, 2016.
  169. Julien, P.Y. "Sediment Mechanics", 78 slides for the Course on Mecanica

- del Rio y Transporte de Sedimentos, Lima, Peru, January 5, 2016.
170. Julien, P.Y. "Sediment Transport", 69 slides for the Course on Mecanica del Rio y Transporte de Sedimentos, Lima, Peru, January 6, 2016.
  171. Julien, P.Y. "Mudflows and Debris Flows", 79 slides for the Course on Mecanica del Rio y Transporte de Sedimentos, Lima, Peru, January 7, 2016.
  172. Julien, P.Y. "River Geometry and Mechanics", 113 slides for the Course on Mecanica del Rio y Transporte de Sedimentos, Lima, Peru, January 11, 2016.
  173. Julien, P.Y. "River Meandering", 62 slides for the Course on Mecanica del Rio y Transporte de Sedimentos, Lima, Peru, January 12, 2016.
  174. Julien, P.Y. "River Engineering and Modeling", 65 slides for the Course on Mecanica del Rio y Transporte de Sedimentos, Lima, Peru, January 13, 2016.
  175. Julien, P.Y. "River Restoration and Rehabilitation", 100 slides for the Course on Mecanica del Rio y Transporte de Sedimentos, Lima, Peru, January 14, 2016.
  176. Julien, P.Y. "Multivariate regression analysis and model development for the estimation of sediment yield from ungauged watersheds in South Korea", 18 slides for the presentation at the Gangneung-Wonju National University, Gangneung, South Korea, February 24, 2016.
  177. Julien, P.Y. "Upland Erosion and Sediment Yield", 78 slides for the presentation at the Hydro Science and Engineering Research Institute of KICT, Ilsan, South Korea, February 25, 2016.
  178. Lee, J.H., and P.Y. Julien, "Hydroclimatic Impact of the ENSO on South Korean Precipitation Patterns", Hydrology Days, March 22, 2016, Fort Collins, Colorado (1p. Abstract and presentation by Dr. Lee).
  179. Horner, C. and P.Y. Julien, "Implications of Changing Hydraulics for the Rio Grande Silvery Minnow", Hydrology Days, March 21-23, 2016, Fort Collins, Colorado (Poster by Corinne).
  180. Lai, K. and P.Y. Julien, "A Study on the Impacts of SMART Tunnel Outflow on Hydraulics of Kerayong River", Hydrology Days, March 23, 2016, Fort Collins, Colorado (1p. Abstract).
  181. Palu, M.C. and P.Y. Julien, "Erosion Caused by Cavitation of Bottom Outlets, Cambambe Dam Case, Angola", Hydrology Days, March 23, 2016, Fort Collins, Colorado (1p. Abstract).
  182. Kim, H.Y. and P.Y. Julien, "Optimization of Sangju Weir Operations to Mitigate Sedimentation Problems", Hydrology Days, March 21-23, 2016, Fort Collins, Colorado (1p. Abstract).
  183. Julien, P.Y., "The Management of River Sediment", Seminar presentation at K-water, July 19, 2016, Daejeon, South Korea (52 slides).
  184. Julien, P.Y., "Multivariate Regression Analysis & Model Development for the Estimation of Sediment Yield from Ungauged Watersheds in South

- Korea”, Progress report presentation, July 20, 2016, Gangneung-Wonju University, South Korea (41 slides).
185. Julien, P.Y. “Stream Restoration and River Engineering”, 228 slides for the Short Course on Mecanica del Rio y Transporte de Sedimentos, Lima, Peru, September, 2016.
  186. Julien, P.Y., “Sediment Yield and Reservoir Sedimentation”, Seminar presentation at the K-water Headquarters, Daejon, South Korea, January 18, 2017 (41 slides).
  187. Julien, P.Y. “Multivariate Regression Analysis & Model Development for the Estimation of Sediment Yield from Ungauged Watersheds in South Korea”, Final Report Presentation at the K-water Headquarters, Daejon, South Korea, January 19, 2017,(56 slides).
  188. Byeon, J., P.Y. Julien and H. Kim, “Smart Water Grid application to Geumsan City, South Korea”, Hydrology Days, March 20, 2017, Fort Collins, Colorado (presentation by June).
  189. Lee, J.H., P.Y. Julien and J.A. Ramirez, “South Korean Precipitation Variability in Association with Large Scale Climatic Patterns”, Hydrology Days, March 20, 2017, Fort Collins, Colorado (presentation by Jai Hong).
  190. Palu, M. and P.Y. Julien, “Flood Wave Propagation Caused by a Tailing Dam Failure Fundão Dam Case, Brazil”, Hydrology Days, March 22, 2017, Fort Collins, Colorado (presentation by Marcos).
  191. Yang, C.Y. and P.Y. Julien, “Estimating the Total Sediment Load using MEP and SEMEP”, Hydrology Days, March 22, 2017, Fort Collins, Colorado (presentation by Chun-Yao).
  192. Kang, W. and P.Y. Julien, “Multiple Regression Analysis and Model for Sediment Yield in South Korea”, Hydrology Days, March 22, 2017, Fort Collins, Colorado (presentation by Chun-Yao)
  193. Lee, J. and P.Y. Julien, “Estimation of Specific Degradation of Watersheds using Rainfall Erosivity”, Hydrology Days, March 22, 2017, Fort Collins, Colorado (presentation by Joonhak).
  194. Andika, N. and P.Y. Julien, “Mud flow Diversion Management in the Porong River, Indonesia”, Hydrology Days, March 22, 2017, Fort Collins, Colorado (presentation by Neil).
  195. Nur, S.M., Muhammad, S.A., Abdullah, J., and P.Y. Julien, “Characterics of Rainfall in Peninsular Malaysia,” 3rd International Conference on Water Resource and Environment (WRE 2017), June 26-29, Qingdao, China, 14p.
  196. Lai, K. and P.Y. Julien, “Utilizing Google Earth Features in Hydraulic Model Development,” Proceedings of the 36th IAHR World Congress, August 13-18, 2017, Kuala Lumpur, Malaysia, 8p.
  197. Byeon, S.J., P.Y. Julien and H.Y. Kim, “Smart Water Grid application to localize leakage for Old Town at Geumsangun-County”, Smart Water Grid International Conference 2017, November 2-3, Incheon, Republic

- of Korea.
198. Julien, P.Y., W. Kang, C. Yang, J.H. Lee, J. Lee and S. Byeon, "Estimation of sediment yield from ungauged watersheds", Smart Water Grid International Conference 2017, November 2-3, Incheon, Republic of Korea.
  199. Julien, P.Y., W. Kang, C. Yang, J.H. Lee, J. Lee and S. Byeon, "Estimation of sediment yield from ungauged watersheds", Asia-EC JRC Joint Conference 2017 on "All That Soil Erosion the Global Task to Conserve Our Soil Resources", December 4~7, 2017, J.W. Marriott Hotel, Seoul, Korea.
  200. Yang, C.Y. and P.Y. Julien, "A New Way to Calculate the Mean Annual Sediment Yield", Hydrology Days, March 21, 2018, Fort Collins, Colorado (presentation by Chun-Yao).
  201. Palu, M. and P.Y. Julien, "Sediment Wave Propagation Modeling in the Doce River after the Fundão Tailings Dam Break in Brazil", Hydrology Days, March 21, 2018, Fort Collins, Colorado (pres. by Marcos).
  202. Andika, N. and P.Y. Julien, "Added Sediment Concentration in the Porong River, Indonesia from the Sidoarjo Mud Volcano Diversion", Hydrology Days, March 21, 2018, Fort Collins, Colorado (presentation by Neil).
  203. Jang, E.K., U. Ji, W.K. Yeo and P.Y. Julien, "Analysis of Sediment Transport Formulas using a Data Mining Technique with Applications to South Korean Rivers", Hydrology Days, March 21, 2018, Fort Collins, Colorado (presentation by Eun-kyung).
  204. Lee, J.H., P.Y. Julien and C. Thornton, "Interference of Dual Spillways Operations", Hydrology Days, March 20, 2018, Fort Collins, Colorado (presentation by Dr. Lee).
  205. Kang, W. and P.Y. Julien, "GIS-based Analysis of Specific Degradation of South Korean River Basins", Hydrology Days, March 21, 2018, Fort Collins, Colorado (presentation by Woochul).
  206. Pinson, A.O., P.Y. Julien, B.E. Baker and K.D. White, "Projected Changes in Sedimentation at Seven USACE Reservoirs on the Southern Plains", SEDHYD 2019 Conference, June 24-28, 2019, Reno, Nevada, 13p.
  207. Li, W. and P.Y. Julien, "Use of Shallow Water Equations to Study Rio Grande Silvery Minnow Habitat in Middle Rio Grande River in New Mexico", March 27, 2019, Fort Collins, Colorado (poster by Weimin).
  208. Kang, W. and P.Y. Julien, "Geospatial Analysis of Land Use Effects on Sediment Yield", Hydrology Days, March 28, 2019, Fort Collins, Colorado (presentation by Woochul).
  209. Yang, C.Y. and P.Y. Julien, "Parametric Analysis of the Mean Annual Sediment Yield", Hydrology Days, March 28, 2019, Fort Collins, Colorado (presentation by Chun Yao).
  210. Cundiff, S. and P.Y. Julien, "Modeling the Effects of Subsidence on

- Sediment Transport in the San Joaquin River Bypass System”, Hydrology Days, March 28, 2019, Fort Collins, Colorado (presentation by Susan).
211. LaForge, K. C.Y. Yang, and P.Y. Julien, “Hydraulic Modeling and Silvery Minnow Habitat Analysis on the Middle Rio Grande”, Hydrology Days, March 28, 2019, Fort Collins, Colorado (presentation by Chun Yao).
  212. Andika, N. and P.Y. Julien, “Turbidity and Sediment Measurements of the Porong River from a Mud Volcano Diversion”, Hydrology Days, March 28, 2019, Fort Collins, Colorado (presentation by Neil).
  213. Palu, M. and P.Y. Julien, “Simulation of the Hypothetical Collapse of Tailings Dams in the Doce River basin, Brazil”, Hydrology Days, March 28, 2019, Fort Collins, Colorado (presentation by Marcos).
  214. Julien, P.Y., “Reservoir Sedimentation: Analysis and Modeling,” Water Science and Engineering Seminar, CSU College of Engineering, Nov. 8, 2019.
  215. Palu, M. and P.Y. Julien, “Review of Tailings Dam Failures in Brazil”, XXIII Simposio Brasileiro de Recursos Hidricos, Iguazu Falls, November 24-28 2019, 9p.
  216. Pinson, A.O., P.Y. Julien, T.J. Hill and K.D. White., “Projected Changes in Reservoir Sedimentation in the Continental U.S.” AGU Conference Fall 2019.
  217. Palu, M. and P.Y. Julien, “Impact of suspended sediment propagation after the hypothetical failure of tailings dams in the Doce River Basin”, Transporte de sedimentos: da bacia hidrographica ate a foz, XIV Encontro nacional de Engenharia de sedimentos, ABRHidro, Campinas, SP, Brasil, 10p. November 9-13, 2020, 10p.
  218. Baird, D.C., C.Y. Yang, K. LaForge, P.Y. Julien and S. Doidge, “Changing Middle Rio Grande channel conditions, Isleta to Rio Puerco”, 2021 World Environmental and Water Resources Congress, ASCE-EWRI, Virtual on line June 21-25, 2021, 15p.
  219. Julien, P.Y., “Sediment Plugs of the Middle Rio Grande”, Seminar series, Department of Civil and Environmental Engineering, Lory Student Center, September 23, 2021, 38 slides.
  220. Lee, J.H., P.Y. Julien and J. Cho. “The Impacts of the Extreme Phases of the Southern Oscillations on Rainfall Erosivity in the United States”, Hydrology Days, April 25, 2022, Fort Collins, Colorado (presentation by Dr. Lee).
  221. Schied, A., J. Sperry and P.Y. Julien, “Habitat Mapping of the Silvery Minnow in the Middle Rio Grande, Bosque Del Apache Reach”, Hydrology Days, April 26, 2022, Fort Collins, Colorado (presentation by Andrew).
  222. Corsi, B., C. Radobenko, T., Anderson and P. Julien, “Morpho-dynamic Processes in the Bernalillo Reach of the Middle Rio Grande”, Hydrology Days, March 21-22, 2023, Fort Collins, Colorado (presentation by

- Brianna).
223. Anderson, T., B. Corsi, C. Radobenko, and P. Julien, "Morpho-dynamic Processes in the Bernalillo Reach of the Middle Rio Grande", Hydrology Days, March 21-22, 2023, Fort Collins, Colorado (presentation by Tristen).
  224. Radobenko, C., B. Corsi, T. Anderson, and P. Julien, "Middle Rio Grande River Hydraulic Modeling: A comparison between 1D and 2D hydraulic modeling and the impacts to quantifying Silvery Minnow Habitat in the Bernalillo Reach of the Middle Rio Grande River." Hydrology Days, March 21-22, 2023, Fort Collins, Colorado (presentation by Chelsey).
  225. Posner, A., D.C. Baird, J. Sperry, A. Schied, N. Holste and P.Y. Julien, " Changing Middle Rio Grande Morphology, Bosque del Apache National Wildlife Refuge to Elephant Butte Reservoir", SED-HYD Conference, Saint Louis, MO, 2023.
  226. Baird, D.C., T. Anderson, B. Corsi, C. Rasmussen, A. Posner, N. Holste, and P. Y. Julien, "Geomorphic evolution model for the Middle Rio Grande, NM", SED-HYD Conference, Saint Louis, MO, 2023.
  227. Baird, D.C., C. Radobenko, B. Corsi, T. Anderson and P.Y. Julien, "Changing Middle Rio Grande Channel Conditions – Highway 550 to Montano Road Bridge", SED-HYD Conference, Milwaukee, WI, 2024, 17p.

## **TECHNICAL REPORTS**

1. Frenette, M., P.Y. Julien, et al. *Les caractéristiques physiques de la rivière Matamek et de son bassin de drainage*, CENTREAU Report, CRE-75-02, February 1975, 74 p.
2. Frenette, M., P.Y. Julien, et al. *Analyse hydro-physique de la rivière Matamek et analyse des possibilités de créer des frayères artificielles*, CENTREAU Report, CRE-76-01, March 1976, 44 p.
3. Frenette, M., P.Y. Julien, et al. *Caractéristiques d'écoulement en relation avec la productivité et la survie des salmonidés dans la rivière Matamek*, CENTREAU Report, CRE-78-01, January. 1979, 43 p.
4. Verrette, J.Ls. and P.Y. Julien. *Laboratoire de Génie Civil I*, Lecture Notes. BCE-80-03, Department of Civil Engineering, Laval University, January 1980.
5. Frenette, M. and P.Y. Julien. *Rapport synthèse sur les caractéristiques hydro-physiques du bassin de la rivière Matamek*, Preliminary Report, CENTREAU, CRE-80-06, March 1980, 286 p.
6. Frenette, M. and P.Y. Julien. *Etude hydro-dynamique du site d'installation d'une barrière-à-saumons sur la rivière Mitis*, Hydrotech Report, March 1981.

7. Julien, P.Y. *Preliminary report on the sedimentation of the Molineros Reservoir in Bolivia*, Internal Report for Hydrotech, April 1983, 147 p.
8. Julien, P.Y. *Analyse sédimentologique de la rivière-à-Mars*, Internal report for CENTREAU, Sept. 1983, 27 p.
9. Thorne, E.R., S. Rais, L.W. Zevenbergen, J.B. Bradley and P.Y. Julien. *Measurement of bend flow hydraulics on the Fall River at low stage*, Water Resources Field Support Laboratory Report 83-9P, Colorado State University, 1983, 48 p.
10. Julien, P.Y. and D.B. Simons. *Analysis of hydraulic geometry relationships in alluvial channels*, Report CER83-84PYJ-DBS45, Colorado State University, April 1984, 47 p.
11. Julien, P.Y. and D.B. Simons. *Analysis of sediment transport equations for rainfall erosion*, Report CER83-84PYJ-DBS52, Colorado State University, June 1984, 46 p.
12. Julien, P.Y. *Planform geometry of meandering alluvial channels*, Report CER84-85PYJ5, Colorado State University, May 1985, 49p.
13. Julien, P.Y. and D.M. Hartley. *Formation of roll waves in laminar sheet flow*, Report CER84-85PYJ-DMH18, Colorado State University, January 1985, 38 p.
14. Julien, P.Y. *Motion of sediment particles in a Rankine combined vortex*, Report CER84-85PYJ6, Colorado State University, May 1985, 37 p.
15. Frenette, M. and P.Y. Julien. *Case studies in reservoir sedimentation*, Lecture notes for the Joint IEP-CSCE Workshop on Sedimentation in Rivers at Tarbela Centre, Pakistan, April 6, 1985, 27 p.
16. Julien, P.Y., Editor. *Essays on river mechanics*, Report CER85-86PYJ28, Colorado State University, May 1986, 181 p.
17. Julien, P.Y., Editor. *Essays on river mechanics*, Report CER86-87PYJ-HY1, Colorado State University, May 1987, 99 p.
18. Lan, Y.Q. and P.Y. Julien. *Research review on hyperconcentrated flows*, Report CER86-87PYJ-HY2, Colorado State University, June 1987, 47 p.
19. Julien, P.Y. *Analyse des coefficients de frottement dans les conduites*, Unpublished report for Tubecon, January 1988, 22 p.
20. Julien, P.Y., Editor. *Essays on river mechanics*, Report CER87-88PYJ-HY1, Colorado State University, April 1988, 162 p.
21. Julien, P.Y., C.J. Moen and G.U. Sunada, *A one-dimensional finite element model for overland flow simulation - FEM1U User's Manual*, Report CER87-88GEO6, Colorado State University, April 1988, 60p.
22. Julien, P.Y., G.E. Moglen and G.U. Sunada. *A finite element model for spatially varied overland flow simulation - CASC User's Manual*, Report CER87-88GEO7, Colorado State University, October 1988, 52p.
23. Julien, P.Y. and V.C. Santoro, *Literature review on local scour at bridge piers*, unpublished Report, January 1989, 65p.
24. Julien, P.Y. and Y.Q. Lan, *Laboratory analysis of hyperconcentrations*, Report CER88-89PYJ-YL11, Colorado State University, February 1989,

- 129p.
25. Julien, P.Y. and Y.C. Chen, *A short report about the experiment of lamination in a small flume*, unpublished Report, March 1989, 32p.
  26. Molinas, A., G.W. Choi, and P.Y. Julien, *KINSC User's Manual, kinematic wave models for flood routing in a stream channel*, Report CER88-89AM-GWC-PYJ12, Colorado State University, March 1989, 47p.
  27. Julien, P.Y. and Y.C. Chen, *Experimental study of horizontal lamination in a recirculating flume*, Report CER88-89PYJ-YC14, Colorado State University, May 1989, 63 p.
  28. Julien, P.Y. and G.E. Moglen, *The influence of spatial variability of hydrologic parameters on simulated overland flow hydrographs*, Report CER89-90PYJ-GEM1, Colorado State University, July 1989, 97p.
  29. Julien P.Y. and Y.Q. Lan, *Experimental formation of alluvial deposits in a wide rectangular flume*, Report CER89-90PYJ-YQL2, Colorado State University, July 1989, 29p.
  30. Julien, P.Y. and Y.C. Chen, *Experimental study of the deposition and drying of Bijou Creek sand in a recirculating flume*, Report CER88-89PYJ-YCC15, Colorado State University, July 1989, 35p.
  31. Saghafian, B., and P.Y. Julien. *Resistance to sheet flow*, Center for Geosciences, Report CER88-89BS-PYJ13, Colorado State University, January 1989, 84p.
  32. Julien, P.Y. and Y.Q. Lan, *Sedimentation of sand mixtures in a vertical cylinder*, Report CER89-90PYJ-YQL13, Colorado State University, March 1990, 48p.
  33. Julien, P.Y., Editor, *Essays on river mechanics*, Report CER89-90PYJ-14, Colorado State University, May 1990, 88p.
  34. Julien, P.Y. and Y.Q. Lan, *Laboratory experiments on sedimentation, lamination and desiccation of sediment mixtures*, Report CER89-90PYJ-15, Colorado State University, May 1990, 165p.
  35. Julien, P.Y., and B. Saghafian, *A two-dimensional watershed rainfall-runoff model*, Report CER90-91PYJ-BS-12, March 1991, 66p.
  36. Julien, P.Y., Editor, *Essays on river mechanics*, Report CER90-91PYJ-13, Colorado State University, May 1991, 136p.
  37. Julien, P.Y., *Study of bedform geometry in large rivers*, Report Q 1386, Delft Hydraulics, June 1992, 78p.
  38. Vonder Haar, T.H., J.L. Behunek and Principal Investigators including P.Y. Julien, *Final Research Report: Phase I The Center for Geosciences*, Final report, 9/1/86 - 6/15/92 on Geosciences Center research ARO Grant DAAL03-86-K-0175, CIRA, Colorado State University, November 1992, 195p.
  39. Julien, P.Y. Editor, *Essays on river mechanics*, Report CER92-93PYJ-5, Colorado State University, April 1993, 98p.
  40. Julien, P.Y. and Y. Raslan, *Laboratory notes on stratification of sands*,

- Report CER93-94PYJ-1, Colorado State University, November 1993, 77p.
41. Julien, P.Y., *CE 300 Elementary fluid mechanics laboratory manual*, Unpublished Laboratory Instruction Manual, Spring 1994, 54p.
  42. Julien, P.Y., *Selected papers 1984-1994*, Report CER94-95-PYJ-1, September 1994, 452p.
  43. Julien, P.Y. Editor, *Essays on river mechanics*, Report CER94-95PYJ-3, Colorado State University, April 1995, 145p.
  44. Julien, P.Y., C.I. Meier and B. Blackard, *Laboratory measurements of bedload particle velocities*, Report CER95-96PYJ-CIM-BB1, Colorado State University, November 1995, 334p.
  45. Julien, P.Y. Editor, *Essays on river mechanics*, Report CER95-96PYJ-2, Colorado State University, April 1996, 87p.
  46. Vonder Haar, T.H. and Principal Investigators including P.Y. Julien, *DoD Center for Geosciences - Phase II Annual Report (1994-1995)* under DoD Grant # DAAH04-94-G-0420. CIRA, Colorado State University, March 1996, 126 p.
  47. Julien, P.Y. Editor, *Essays on river mechanics*, Report CER96-97PYJ-1, Colorado State University, April 1997, 224p.
  48. Julien, P.Y., Review of *Aligidir Phase II Pre-design of Structures*, unpublished report prepared for Natural Resources Consulting Engineers, Inc., August 1997, 3p.
  49. Julien, P.Y. and J. Guo, *Transport velocities of individual particles over smooth open-channel bed*, Report CER97-98PYJ-GJ1, Colorado State University, October 1997, 48p.
  50. Julien, P.Y., *Sediment transport analysis of the Bureau of Reclamation siphon on Whitewood Creek, South Dakota*, unpublished report prepared for ISSI, Inc., April 1998, 17p.
  51. Julien, P.Y. Editor, *Essays on river mechanics*, Report CER97-98PYJ-1, Colorado State University, April 1998, 70p.
  52. Vonder Haar, T.H. and Principal Investigators including P.Y. Julien, *DoD Center for Geosciences - Phase II Annual Report (1996-1997)*, under DoD Grant # DAAH04-94-G-0420. CIRA, Colorado State University, April 1998, 122p.
  53. Julien, P.Y., *Sediment Transport Analysis of the Bureau of Reclamation Siphon on Whitewood Creek, South Dakota*, Appendix B in Screening Level Risk Assessment for Whitewood Creek Siphon, South Dakota, report prepared by ISSI for U.S. Environmental Protection Agency, June 1998, 17 p.
  54. Julien, P.Y., *Revised sediment yield at L-Bar*, unpublished letter report for the Nuclear Regulatory Commission, October 1998, 8p.
  55. Guo, J.J., and P.Y. Julien, *Solution Manual for Erosion and Sedimentation*, Report manuscript, January 1999, 114 p.  
[http://myweb.unomaha.edu/~junkeguo/Solutions%20Manual%20of%](http://myweb.unomaha.edu/~junkeguo/Solutions%20Manual%20of%20)

20Erosion%20and%20Sedimentation.pdf

56. Leon, C., G. Richard, T. Bauer and P.Y. Julien, *Middle Rio Grande, Cochiti to Bernalillo Bridge hydraulic geometry, discharge and sediment data base and report - Volume I cross-section geometry data and plots*, prepared for the U.S. Bureau of Reclamation, Albuquerque, NM., January 1999, 242 p.
57. Leon, C., G. Richard, T. Bauer and P.Y. Julien, *Middle Rio Grande, Cochiti to Bernalillo Bridge hydraulic geometry, discharge and sediment data base and report - Volume II daily mean discharge plots*, prepared for the U.S. Bureau of Reclamation, Albuquerque, NM, January 1999, 39p.
58. Leon, C., G. Richard, T. Bauer and P.Y. Julien, *Middle Rio Grande, Cochiti to Bernalillo Bridge hydraulic geometry, discharge and sediment data base and report - Volume IIIA bed material data*, prepared for the U.S. Bureau of Reclamation, Albuquerque, NM., January 1999, 120 p.
59. Leon, C., G. Richard, T. Bauer and P.Y. Julien, *Middle Rio Grande, Cochiti to Bernalillo Bridge hydraulic geometry, discharge and sediment data base and report - Volume IIIB suspended sediment concentration data and plots*, prepared for the U.S. Bureau of Reclamation, Albuquerque, NM., January 1999, 206 p.
60. Leon, C., G. Richard, T. Bauer and P.Y. Julien, *Middle Rio Grande, Cochiti to Bernalillo Bridge hydraulic geometry, discharge and sediment data base and report - Volume IIIC suspended sediment discharge data and plots*, prepared for the U.S. Bureau of Reclamation, Albuquerque, NM., January 1999, 193 p.
61. Leon, C., G. Richard, T. Bauer and P.Y. Julien, *Middle Rio Grande, Cochiti to Bernalillo Bridge hydraulic geometry, discharge and sediment data base and report - Volume IIID suspended sediment particle size data and plots*, prepared for the U.S. Bureau of Reclamation, Albuquerque, NM., January 1999, 124 p.
62. Julien, P.Y. Editor, *Essays on river mechanics*, Report CER98-99PYJ-1, Colorado State University, April 1999, 117p.
63. Bauer, T., C. Leon, G. Richard and P.Y. Julien, *Middle Rio Grande, Bernalillo Bridge to San Acacia, hydraulic geometry, discharge and sediment data base and report - Volume I cross-section geometry data and plots*, prepared for the U.S. Bureau of Reclamation, Albuquerque, NM., January 2000, 212 p.
64. Bauer, T., C. Leon, G. Richard and P.Y. Julien, *Middle Rio Grande, Bernalillo Bridge to San Acacia, hydraulic geometry, discharge and sediment data base and report - Volume II - daily mean discharge plots*, prepared for the U.S. Bureau of Reclamation, Albuquerque, NM., January 2000, 75 p.
65. Bauer, T., C. Leon, G. Richard and P.Y. Julien, *Middle Rio Grande, Bernalillo Bridge to San Acacia, hydraulic geometry, discharge and sediment data base and report - Volume IIIA - bed material data*,

- prepared for the U.S. Bureau of Reclamation, Albuquerque, NM., January 2000, 84 p.
66. Bauer, T., C. Leon, G. Richard and P.Y. Julien, *Middle Rio Grande, Bernalillo Bridge to San Acacia, hydraulic geometry, discharge and sediment data base and report - Volume IIIB - suspended sediment concentration data and plots*, prepared for the U.S. Bureau of Reclamation, Albuquerque, NM., January 2000, 319 p.
  67. Bauer, T., C. Leon, G. Richard and P.Y. Julien, *Middle Rio Grande, Bernalillo Bridge to San Acacia, hydraulic geometry, discharge and sediment data base and report - Volume IIIC - suspended sediment discharge data and plots*, prepared for the U.S. Bureau of Reclamation, Albuquerque, NM., January 2000, 217 p.
  68. Bauer, T., C. Leon, G. Richard and P.Y. Julien, *Middle Rio Grande, Bernalillo Bridge to San Acacia, hydraulic geometry, discharge and sediment data base and report - Volume IIID - suspended sediment particle size data and plots*, prepared for the U.S. Bureau of Reclamation, Albuquerque, NM., January 2000, 43 p.
  69. Warren, S.D., H. Mitasova, M.R. Jourdan, W.M. Brown, B.E. Johnson, D.M. Johnson, P.Y. Julien, L. Mitas, D.K. Molnar and C.C. Watson, *Digital terrain modeling and distributed soil erosion simulation/measurement for minimizing environmental impacts of military training (CS-752)*, Report CEMML TPS 00-2, submitted to SERDP, Arlington, Virginia, February, 2000, 65 p.
  70. Richard, G., C. Leon and P.Y. Julien, *Bernardo Reach geomorphic analysis - Middle Rio Grande, New Mexico*, Report for the U.S. Bureau of Reclamation, Albuquerque, New Mexico, June 2000, 67p.
  71. Leon, C., and P.Y. Julien, *Rio Puerco Reach channel width analysis - Middle Rio Grande, New Mexico*, Report prepared for the U.S. Bureau of Reclamation, Albuquerque, New Mexico, August 2000, 13 p.
  72. Julien, P.Y., *Bed resistance to flow of the Bovenrijn-Waal Rivers during the 1998 flood*. Delft Hydraulics Report Q2691 prepared for DG-Rijkswaterstaat RIZA, August 2000, 70 p.
  73. Leon, C. and P.Y. Julien, *Bernalillo bridge Reach - Highway 44 bridge to Cross section CO-33 geomorphic analysis*, Report prepared for the U.S. Bureau of Reclamation, Albuquerque, NM, December 2000, 81p.
  74. Julien, P.Y., *Elements of a Comprehensive Study Plan for the San Acacia Diversion*, Unpublished Report prepared for the U.S. Bureau of Reclamation, Albuquerque, New Mexico, August 2001, 7p.
  75. Leon, C. and P.Y. Julien, *Bernalillo Bridge Reach - Highway 44 Bridge to Corrales Flood Channel Outfall - Hydraulic Modeling Analysis 1962-1992*, Report prepared for the U.S. Bureau of Reclamation, Albuquerque, New Mexico, December 2001, 94p.
  76. Leon, C. and P.Y. Julien, *Sediment Transport Modeling - Temporary Channel*, Unpublished Report prepared for the U.S. Bureau of

- Reclamation, Albuquerque, New Mexico, April 2002, 9p.
77. Julien, P.Y., *Water Resources Cases in the United States*, Unpublished report for the Kyonggi Provincial Government, Korea, December 2002, 135p including 2 Appendices.
  78. Julien, P.Y. and J. Duncan, *Optimal Design Criteria of Bendway Weirs from Numerical Simulations and Physical Model Studies*, Unpublished report prepared for ERDC-Waterways Experiment Station, Vicksburg Mississippi, April 2003, 40p.
  79. Julien, P.Y. and A. Mendelsberg, *Sediment in Arroyo Pasajero and San Luis Canal*, Report prepared for the US Bureau of Reclamation and the California Department of Water Resources, July, 2003, 39p.
  80. Sixta, M. J. Albert, C. Leon and P.Y. Julien, *Bernalillo Bridge Reach - Highway 44 Bridge to Corrales Flood Channel Outfall - Hydraulic Modeling Analysis 1962-1992*, Report prepared for the U.S. Bureau of Reclamation, Albuquerque, New Mexico, June 2003, 94p.
  81. Albert, J., M. Sixta, C. Leon and P.Y. Julien, *Corrales reach - Corrales Flood Channel to Montano Bridge - Hydraulic Modeling Analysis, 1962-2001*, Report prepared for the U.S. Bureau of Reclamation, Albuquerque, New Mexico, August 2003, 97p. + Appendices.
  82. Sixta, M. J. Albert, C. Leon and P.Y. Julien, *San Felipe Reach - Arroyo Tonque to Angostura Diversion Dam - Hydraulic Modeling Analysis 1962-1998*, Report prepared for the U.S. Bureau of Reclamation, Albuquerque, New Mexico, June 2003, 85p. + Appendices.
  83. Jay, F., J. Albert and P.Y. Julien, *Low Flow Conveyance Channel, BORAMEP Total Load Analysis 2001*, Middle Rio Grande New Mexico, Report prepared for the U.S. Bureau of Reclamation, Albuquerque, New Mexico, September 2004 - revised March 2005, 61p.
  84. Velleux, M., P.Y. Julien and J.F. England, "*TREX Watershed Modeling Framework User's Manual: Model Theory and Description*", Report presented to USACE-ERDC-WES, Environmental Laboratory, August 2005, 83p.
  85. Julien, P.Y. and C. Vensel, *Review of Sedimentation Issues on the Mississippi River*, Draft Report for a Case Study presented at the UNESCO-ISI Steering Committee Meeting, Sharm-El-Sheikh, Egypt, Nov. 9-11, 2005, 58p.
  86. Julien, P.Y. and S. Shah, *Sedimentation Initiatives in Developing Countries*, Draft Report presented at the UNESCO-ISI Steering Committee Meeting, Sharm-El-Sheikh, Egypt, Nov. 9-11, 2005, 66p.
  87. Vensel, C., G. Richard, C. Leon, and P.Y. Julien, *Hydraulic Modeling of the Middle Rio Grande, New Mexico, Rio Puerco Reach*, Report prepared for the U.S. Bureau of Reclamation, Albuquerque, New Mexico, Dec. 2005, 80p. Revised in July 2006 by S. Shah, 112 p.
  88. Julien, P.Y., J.F. Ruff, and Ji, U., *Pier scour protection for the Gupo and Subway bridges on the Lower Nakdong River, S. Korea*, Unpublished

- report prepared for Pusan National University and the Korean Civil Engineering Society of Busan Agency, Busan, S. Korea, March 1, 2006, 44p. (Also translated into Korean, March 06, 46p.).
89. Duan, J.R. and P.Y. Julien, *Numerical Simulation of Meandering Evolution*, Proceedings of the World Environmental and Water Resources Congress 2006, May 21-25, 2006, Omaha, Nebraska, USA
  90. Bounvilay, B. and P.Y. Julien, *Integrated Trans-boundary Sediment Management In the Changing Environment of South and Southeast Asia*. Unpublished Concept Paper for the Global Environment Funds, prepared at NUOL and CSU, June 2006, 16p.
  91. Novak, S., S. Shah and P.Y. Julien, *Cochiti Reach - Cochiti Dam to Galisteo Creek - Hydraulic Modeling Analysis 1962-2004*, Report prepared for the U.S. Bureau of Reclamation, Albuquerque, New Mexico, July 2006, 148p.
  92. Julien, P.Y. A. Ab. Ghani, N.A. Zakaria, R. Abdullah, C.C. Kiat, R. Ramli, J. Dinor, A. Manap, F. Yusof. *Design Option of the Flood Mitigation Plan of Sg. Muda, Sungai Muda, Kedah, Malaysia*, Final Report prepared by REDAC, Universiti Sains Malaysia, Nibong Tebal, for the Dept. of Irrigation and Drainage Malaysia, September 2006, 149p.
  93. Larsen, A., Shah-Fairbank, S.C. and P.Y. Julien, *Escondida Reach - Escondida to San Antonio - Hydraulic Modeling Analysis 1962-2006*, Draft report prepared for the U.S. Bureau of Reclamation, Albuquerque, New Mexico, May 2007, 192p., Final Report, September 2011, 188p.
  94. Remillard, M., S. Shah-Fairbank, and P.Y. Julien, *Galisteo Reach - Galisteo Creek to Arroyo Tonque - Hydraulic Modeling Analysis 1962-2006*, Draft report prepared for the U.S. Bureau of Reclamation, Albuquerque, New Mexico, May 2007, 43p.
  95. Julien, P.Y., J. Kim and S. Shah-Fairbank, *Restoration of Abandoned Channels*, progress Report prepared for KICT, Seoul, South Korea, March 2008, 3p.
  96. Shah-Fairbank, S.C., J. Kim and P.Y. Julien, *San Acacia Reach - San Acacia Dam to Escondida Bridge - Hydraulic Modeling Analysis 1918-2006*, Draft report prepared for the U.S. Bureau of Reclamation, Albuquerque, New Mexico, April 2008, 124p., Final Report September 2011, 128p.
  97. Julien, P.Y., S. Shah-Fairbank and J. Kim, *Restoration of Abandoned Channels*, Report for the Korea Institute of Construction Technology, KICT, South Korea, April 2008, 42p.
  98. Julien, P.Y., S.C. Shah-Fairbank, J. Kim and H. Ku, *Cheongmi Stream Hydraulic Modeling Analysis*, Final Report prepared for the Korea Institute of Construction Technology, KICT, South Korea, May 2009, 124p.
  99. Shah-Fairbank, S.C., M. Remillard, and P.Y. Julien, *Galisteo Reach - Galisteo Creek to Arroyo Tonque - Hydraulic Modeling Analysis*

- 1918-2006, Report prepared for the U.S. Bureau of Reclamation, Albuquerque, New Mexico, February 2009, 76p.
100. Shah-Fairbank, S.C., K. Hanegan, Q. Benally, N. Beckman and P.Y. Julien, *San Felipe Reach - Arroyo Tonque to Angostura Diversion Dam - Hydraulic Modeling Analysis 1918-2006*, Report prepared for the U.S. Bureau of Reclamation, Albuquerque, NM, February 2009, 77p.
  101. Julien, P.Y., P.W. Mielke and A. Paris, *Gila River Sediment Analysis*, Unpublished report prepared for Stantec, Arizona, May 2009, 10p.
  102. Park, S.K., U. Ji, P.Y. Julien, H. Tanaka and N.T. Vliet et al. "Improvement of Maintenance Enhancement Methods for the Nakdong River Estuary Barrage", Report for the K-water Busan Regional Office, December 2008, 941p.
  103. Julien, P.Y. as International Expert Reviewer among many contributors, "Volume 2 - [River Management Manual](#)" Government of Malaysia, Department of Irrigation and Drainage, 2009, 612 p.
  104. Julien, P.Y. and J. Kim, "Mangyeong Stream Hydraulic Modeling Analysis, Report prepared for the Korea Institute of Construction Technology, KICT, South Korea, June 2010, 114p.
  105. Julien, P.Y. and J. Kim, "Hydraulic Modeling Analysis for Abandoned Channel Restoration - Summary report for Cheongmi Stream and Mangyeong River", Prepared for KICT, Seoul, South Korea, April 2011, 10p.
  106. Julien, P.Y. "Prospective Sedimentation Analysis of Chicha and Sumbay Reservoirs in Peru", Report prepared for MWH, Denver, CO, November 2011, 8p.
  107. Bender, T. R. and P.Y. Julien, "Bosque Reach Overbank Flow Analysis 1962-2002", Final Report prepared for the U.S. Bureau of Reclamation, Albuquerque, New Mexico, Summer 2012, 175p.
  108. Owen, T.E., K. Anderson, S. Shah-Fairbank and P.Y. Julien, "Elephant Butte Reach - Hydraulic Modeling Analysis 1962-2010", Final Report prepared for the U.S. Bureau of Reclamation, Albuquerque, New Mexico, September 2011, 241p.
  109. Paris, A., K. Anderson, S. Shah-Fairbank and P.Y. Julien, "Bosque del Apache Reach - Hydraulic Modeling Analysis 1962-2008", Final Report prepared for the U.S. Bureau of Reclamation, Albuquerque, New Mexico, December 2011, 226p.
  110. Park, K. Bender, T.R., and P.Y. Julien, "Middle Rio Grande - Literature Review and Conceptual Assessment", Final Report prepared for the U.S. Bureau of Reclamation, Albuquerque, New Mexico, Summer 2012, 37p.
  111. Park, K., P.Y. Julien and C.P. Shrimpton, "Bosque Reach - Sustainable Width Analysis 1992-2002", Report prepared for the U.S. Bureau of Reclamation, Albuquerque, New Mexico, Summer 2012, 34p.
  112. UNESCO-ISI (M. Mullar, D.Walling, M. Spreafico, C. Hu, V. Golosov, P.Y. Julien, A.A. Ahmed and U.H.A.E. Ismail), "Sediment Issues & Sediment Management in Large River Basins – Interim Case Study

- Synthesis Report*", International sediment Initiative, technical Documents in Hydrology, CN/2011/SC/IHP/PI/2, UNESCO Office in Beijing & IRTCES 2011, 88p.  
<http://unesdoc.unesco.org/images/0021/002128/212891E.pdf>
113. Julien, P.Y., "*Inception Report on Benchmarking of CWPRS.*" Report prepared for the World Bank, June 2012, 5p.
  114. Julien, P.Y., "*Interim Report on Benchmarking of CWPRS.*" Report prepared for the World Bank, July 2012, 44p.
  115. Kim, J. and P.Y. Julien, "*Stabilization Methods for River Confluences and Countermeasures for Headcutting.*" Report prepared for Myongji University, South Korea, April 2012, 26p.
  116. Park, K. and P.Y. Julien, "*Mechanics of Sediment Plug Formation in the Middle Rio Grande*", Report prepared for the U.S. Bureau of Reclamation, Albuquerque, New Mexico, Summer 2012, 44p.
  117. Shrimpton and P.Y. Julien, "*Middle Rio Grande, Assessment of Sediment Plug Hypotheses*", Report prepared for the U.S. Bureau of Reclamation, Albuquerque, New Mexico, Summer 2012, 48p.
  118. Julien, P.Y., "*Benchmarking of CWPRS,*" Final Report prepared for the World Bank, October 2012, 138p.
  119. Julien, P.Y., "*External Examiner Review Report of EC220 (Current and Revised),*" Faculty of Civil Engineering, Universiti Teknologi MARA, Shah Alam, Malaysia, January 2013, 6p.
  120. Julien, P.Y., "*Prospective Developments at CWPRS: Emerging Opportunities and Challenges,*" Final Report prepared for the World Bank, March 2013, 101p.
  121. Kim, J. and P.Y. Julien, "*Countermeasures for Tributary Headcutting and Stabilization Methods near Confluences,*" Final Report for the Advanced Research Center for River Operation and Management, ARCROM, Seoul, South Korea, April 2013, 29p.
  122. Sahaar, S. and P.Y. Julien, "*A Review of Techniques Available for Riverbank Protection: A sustainable Approach to Managing Bank Erosion.*" Report for KICT, Ilsan, South Korea, October 2013, 28p.
  123. Julien, P.Y., K. Park and J. Rainwater, "*Review of Sediment Plug Factors*" Performance Report for the US Bureau of Reclamation, Albuquerque Area Office, December 2013, 6p.
  124. Julien, P.Y. and J. Rainwater, "*Review of Sediment Plug Factors – Middle Rio Grande, NM*" Report prepared for the US Bureau of Reclamation, Albuquerque Area Office, January 2014, 66p.
  125. Sahaar, S. and P.Y. Julien, "*A review of techniques available for bank protection: a sustainable approach to managing bank erosion*" Report Part II, prepared for KICT, Ilsan, South Korea, January 2014, 32p.
  126. Julien, P.Y., "*External Examiner Report – Bachelor of Engineering (Hons.) Civil EC220,*" Faculty of Civil Engineering, UiTM, Shah Alam, Malaysia, October 2014, 4 p.
  127. Julien, P.Y., "*Review of Landslide and Debris Flow Technology,*" Report Part II, prepared for Chungnam National University, South Korea, April

- 2015, 77p.
128. Bledsoe, B.P., R. Atadero, P.Y. Julien, J. Ramirez and C.I. Thornton, "PART A: Civil and Environmental Engineering Department Overview & Self-evaluation", Draft report of the Accreditation Committee, Department of Civil and Environmental Engineering, July 2015, 121p.
  129. Bledsoe, B.P., R. Atadero, P.Y. Julien, J. Ramirez and C.I. Thornton, "PART B: Support Document – Student-Learning Outcomes –Programs of Study & Graduate Courses", Draft report of the Accreditation Committee, Department of Civil and Environmental Engineering, July 2015, 90p.
  130. Bledsoe, B.P., R. Atadero, P.Y. Julien, J. Ramirez and C.I. Thornton, "PART C: Support Document – Student Learning Outcomes – Graduate Student Publications", Draft report of the Accreditation Committee, Department of Civil and Environmental Engineering, July 2015, 69p.
  131. Bledsoe, B.P., R. Atadero, P.Y. Julien, J. Ramirez and C.I. Thornton, "PART D: Support Document – Co-Curricular Learning Effectiveness – Graduate Student Assistance and Support & Advising and Guidance", Draft report of the Accreditation Committee, Department of Civil and Environmental Engineering, July 2015, 34p.
  132. Bledsoe, B.P., R. Atadero, P.Y. Julien, J. Ramirez and C.I. Thornton, "PART E: Support Document – Student Placement Outcomes – Current Alumni Positions", Draft report of the Accreditation Committee, Department of Civil and Environmental Engineering, July 2015, 23p.
  133. Bledsoe, B.P., R. Atadero, P.Y. Julien, J. Ramirez and C.I. Thornton, "PART F: Support Document – All Outcomes – 2015 Graduate Program Alumni Survey", Draft report of the Accreditation Committee, Department of Civil and Environmental Engineering, July 2015, 60p.
  134. Bledsoe, B.P., R. Atadero, P.Y. Julien, J. Ramirez and C.I. Thornton, "PART G: Support Document – All Outcomes – Campuslabs® Guidelines & Template Assessment Data", Draft report of the Accreditation Committee, Department of Civil and Environmental Engineering, July 2015, 117p.
  135. Bledsoe, B.P., R. Atadero, P.Y. Julien, J. Ramirez and C.I. Thornton, "PART H: Support Document – All Outcomes – Overview of Data Collection and Raw Data", Draft report of the Accreditation Committee, Department of Civil and Environmental Engineering, July 2015, 94p.
  136. Koutsunis, N.A. and P.Y. Julien, "Impact of Climatic Changes on Downstream Hydraulic Geometry and its Influence on Flood Hydrograph Routing – Applied to the Bluestone Dam Watershed", Report prepared for CRREL, July 2015, 54p.
  137. Julien, P.Y. and B. Urbonas, "A Field Visit and Assessment of Sand Creek, Colorado Springs, Colorado", Unpublished Report for the Stormwater Division of Colorado Springs, CO, June 2016, 30p.
  138. Julien, P.Y., W. Kang and C. Yang, "Sediment Yield from Ungauged Watersheds", Progress report to K-water, presented in Gangneung-Wonju University, South Korea, July 20, 2016, 12p.

139. Julien, P.Y., C. Yang, W. Kang, J. Lee, S. Byeon and J.H. Lee, "Sediment Yield from Ungauged Watersheds", Progress report to K-water, presented in Daejon, South Korea, October 18, 2016, 17p.
140. Julien, P.Y. "Appraisal Study Operable Unit 3 Study Area, Libby Asbestos Superfund Site, Libby, Montana, November 2016, prepared by MWH." Review report, December 19, 2016, 1p.
141. Julien, P.Y. "Kootenai Development and Impoundment Dam (KDID) Hydrology Report Operable Unit 3 Study Area, Libby Asbestos Superfund Site, Libby Montana, Draft Final Report, May 2016, prepared by MWH." Review Report October 27, 2016, 4p.
142. Julien, P.Y., C. Yang, W. Kang, J. Lee, S. Byeon and J.H. Lee, "Sediment Yield from Ungauged Watersheds", Draft Final Report to K-water, December 9, 2016, 94p.
143. Julien, P.Y., C. Yang, W. Kang, J. Lee, S. Byeon and J.H. Lee, "Response to the review comments from the Korean Advisory Team", January 13, 2017, 25p.
144. Julien, P.Y., C. Yang, W. Kang, J. Lee, S. Byeon and J.H. Lee, "Multivariate Regression Analysis and Model Development for the Estimation of Sediment Yield from Ungauged Watershed in the Republic of Korea", Final Report and Graphical User Interface software Presented to K-water, February 15, 2017, 412p.
145. Julien, P.Y. "Kootenai Development and Impoundment Dam (KDID) Hydrology Report - Operable Unit 3 Study Area, Libby Asbestos Superfund Site, Libby, Montana", Report Review prepared for MWH, February 25, 2017, 3p.
146. Julien, P.Y. "Draft Waste Rock Pile Potential Failure Mode Analysis Operable Unit 3 Study Area, Libby Asbestos Superfund Site, Libby, Montana, April 2017", Report Review prepared for MWH/Stantec, April 9, 2017, 2p.
147. Julien, P.Y., "Draft Appraisal Study Operable Unit 3 Study Area, Libby Asbestos Superfund Site, Libby, Montana, April 2017", Report Review prepared for MWH/Stantec, April 10, 2017, 3p.
148. Julien, P.Y. and Joonhak Lee, "Hydraulic Engineering Additional Notes Part I – Closed Conduits", Report on notes and solved problems for the class CIVE 401 Hydraulic Engineering, August 2017, 61p.
149. Julien, P.Y. and Jaihong Lee, "Hydraulic Engineering Additional Notes Part II – Hydromachinery", Report on notes and solved problems for the class CIVE 401 Hydraulic Engineering, September 2017, 88p.
150. Julien, P.Y. and Seongjoon Byeon, "Hydraulic Engineering Additional Notes Part III – Open Channels", Report on notes and solved problems for the class CIVE 401 Hydraulic Engineering, September 2017, 52p.
151. Julien, P.Y. and Seongjoon Byeon, "Hydraulic Engineering Additional Notes Part IV – Hydraulic Structures", Report on notes and solved problems for CIVE 401 Hydraulic Engineering, October 2017, 52p.
152. Julien, P.Y., "A Tool for Assessing Future Capacity Loss due to Sedimentation in the United States' Reservoirs", by A.O. Pinson, B.E.

- Baker and K.D. White, Report Review prepared for USACE, February 21, 2018, 5p.
153. Yang, C.Y., K. LaForge and P.Y. Julien, "Middle Rio Grande Isleta Reach: Isleta Diversion Dam to Rio Puerco. Hydraulic Modeling and Silvery Minnow Habitat Analysis 1918-2016", Draft Report for the U.S. Bureau of Reclamation, August 2018, 127p.
  154. LaForge, K., C.Y. Yang and P.Y. Julien, "Middle Rio Grande Rio Puerco Reach: Rio Puerco to San Acacia Diversion Dam. Hydraulic Modeling and Silvery Minnow Habitat Analysis 1918-2016", Draft Report for the U.S. Bureau of Reclamation, August 2018, 124p.
  155. Julien, P.Y., C.Y. Yang and P.Y. Julien, "Rio Grande Silvery Minnow Habitat Synthesis, Draft Final report Nov, 2018" , by J.G. Mortensen, R.K. Dudley, S.P. Platania, and T.F. Turner. Report review prepared for UNM, November 2018, 2p.
  156. Julien, P.Y., "Upper Segment of the Service Spillway Design Project Detailed Design, Basis of Design Report, December 2018", Report Review prepared for MWH/Stantec, January 10, 2019, 2p.
  157. Julien, P.Y., "Lower of the Service Spillway Design Project Conceptual Design Report, December 2018", Report Review prepared for MWH/Stantec, January 14, 2019, 3p.
  158. Yang, C.Y., K. LaForge, P.Y. Julien, and S. Doidge "Middle Rio Grande Isleta Reach: Isleta Diversion Dam to Rio Puerco. Hydraulic Modeling and Silvery Minnow Habitat Analysis 1918-2018", Report for the U.S. Bureau of Reclamation, revised in April 2019, 161p.
  159. LaForge, K., C.Y. Yang and P.Y. Julien "Middle Rio Grande Rio Puerco Reach: Rio Puerco to San Acacia Diversion Dam, Hydraulic Modeling and Silvery Minnow Habitat Analysis 1918-2018", Report for the U.S. Bureau of Reclamation, revised in May 2019, 156p.
  160. Kang, W. and P.Y. Julien, "Erosion Mapping of the Barry M. Goldwater Range (BMGR) East using the Revised Universal Soil Loss Equation (RUSLE)", Report for the Center for Environmental Management of Military Lands (CEMML), June 2019, 29p.
  161. Doidge, S., C. Fogarty, T. Beckwith and P.Y. Julien "Middle Rio Grande San Acacia Reach: Morphodynamic Processes and Silvery Minnow Habitat from San Acacia Diversion Dam to Escondida Bridge", Report for the U.S. Bureau of Reclamation, Final Report June 2020, 141p.
  162. Beckwith, T. and P.Y. Julien "Middle Rio Grande Escondida Reach Report: Morphodynamic Processes and Silvery Minnow Habitat from Escondida Bridge to US-380 Bridge (1918-2018)", Final report for the U.S. Bureau of Reclamation, August 2020, 137p.
  163. Mortensen, J.G., R.K. Dudley, S.P. Platania, G.C. White, T.F. Turner, P.Y. Julien, S. Doidge, T. Beckwith and C. Fogarty, "Linking Morpho-Dynamics and Bio-Habitat Conditions on the Middle Rio Grande: A Linkage Report I-Isleta Reach Analyses", Final report for the U.S. Bureau of Reclamation, November 2020, 152p.
  164. Julien, P.Y., "Diseno de Obras de Proteccion: Pantallas Rigidas para

- Controlar la Erosion del Rio Coca Aguas Abajo de la Captacion de la Central Hidroelectrica Coca Codo Sinclair”, Report review in English, for CELEC, Ecuador, also translated into Spanish by Remigio Galarraga, May, 2021, 14p.
165. Julien, P.Y., “Physical Modeling of Rio Coca in Ecuador”, Brief report for CELEC, Ecuador, also translated into Spanish by Remigio Galarraga, May, 2021, 2p.
  166. Schied, A., J. Sperry and P.Y. Julien “Middle Rio Grande Bosque del Apache Reach Report: Morpho-dynamic Processes and Silvery Minnow Habitat from US-380 Bridge to the Southern Boundary of Bosque Del Apache National Wildlife Refuge”, Final Report for the U.S. Bureau of Reclamation, May 2022, 154p.
  167. Sperry, J., A. Schied and P.Y. Julien “Middle Rio Grande Elephant Butte Reach Report: Morpho-dynamic Processes and Silvery Minnow Habitat from the Southern Boundary of the Bosque Del Apache National Wildlife Refuge to the Elephant Butte Reservoir”, Final Report for the U.S. Bureau of Reclamation, May 2022, 180p.
  168. Radobenko, C., B. Corsi, T. Anderson and P.Y. Julien, “Middle Rio Grande Bernalillo Report: Morpho-dynamic Processes and Silvery Minnow Habitat from Hwy 550 Bridge to Montaña Road Bridge”, Final Report for the U.S. Bureau of Reclamation, April 2023, 193p.
  169. Anderson, T., B. Corsi, C. Radobenko, P.Y. Julien, “Middle Rio Grande Montaña Reach Report: Morpho-dynamic Processes and Silvery Minnow Habitat from the Montaña Road Bridge Crossing to the Isleta Diversion Dam”, Final Report for the U.S. Bureau of Reclamation, April 2023, 195p.
  170. Mortensen, J.G., R.K. Dudley, S.P. Platania, G.C. White, T.F. Turner, P.Y. Julien, S. Doidge, T. Beckwith, A. Schied, and J. Sperry, “Linking Morpho-dynamics and Bio-habitat Conditions on the Middle Rio Grande: Linkage Report II – San Acacia Reach Analyses”, Final Report for the U.S. Bureau of Reclamation, March 2023, 170p.
  171. Mortensen, J.G., R.K. Dudley, S.P. Platania, G.C. White, T.F. Turner, P.Y. Julien, C. Radobenko, T. Anderson, and B.Corsi, “Linking Morpho-dynamics and Bio-habitat Conditions on the Middle Rio Grande: Process-Linkage Report III – Angostura Reach Analyses” Final Report for the U.S. Bureau of Reclamation, December 2023, 143p.

## PRESS RELEASES

1. Engineering Review, *Computer model predicts life-threatening floods*, Colorado State University, Vol. 3, No. 2, 1990, pp. 12-13. (by S. Skog)
2. Triangle Review, *Flood simulations help predict storms' intensity*, Fort Collins, Aug. 8, 1991. (by S. Skog)
3. CSU Office of Public and Media Relations, *Computerized flash-flood warnings on the horizon*, Fort Collins, July 31, 1992.
4. *Fundamental experiments on stratification*, Video tape on laboratory experiments, Prepared in Fort Collins and Rome, July 1992.
5. *Volcanic debris flow disasters*, Two-hour television program, Broadcasted throughout Japan by NHK Fukuoka, October 1993.
6. *Rapid technology transfer - CASC2D*, Selected by DoD-ARO for a booklet which highlights basic research accomplishments, December 1995.
7. *Mud/debris flow dynamics*, Video tape prepared for the Short Course on Mud and Debris Flow Modeling using FLO-2D, San Francisco, CA, August 5-6, 1997.
8. *Les Années Lumière*, Interviewed as part of a two-hour radio program on water, Broadcasted throughout Canada by the Canadian Broadcasting Corporation, Montreal Canada, September 7, 1997.
9. *Two-dimensional runoff and erosion modeling*, Video tape prepared for the Course CE-717 River Mechanics, Fort Collins, CO, January, 1998.
10. *CSU Grant to Boost Security Research*, article in the Fort Collins Coloradoan, January 1, 2002, pp. B1-2.
11. *International Visit, Prof. P.Y. Julien, Colorado State University, USA*, Bulletin of the River Engineering & Urban Drainage Research Centre, REDAC, Universiti Sains Malaysia, Vol. 5, No. 1, p.1., 2006.  
<http://redac.eng.usm.my/>
12. "Professor Julien described the Ipo Weir as the optimum solution and a masterpiece", after an invitation from the Minister of the Office of National River Restoration in South Korea, [www.4rivers.go.kr.](http://www.4rivers.go.kr/), No. 22, November 2011, pp. 8.
13. "Cruzada para que Cali no despierte sin sus Rios", El Tiempo, Santiago de Cali, Colombia, May 17<sup>th</sup> 2018, p.3.1.
14. "Comenzo la fiesta por los siete rios", El Pais, Santiago de Cali, May 18<sup>th</sup> 2018, p.B.1.
15. "El ingles que ensena a salvar rios", El Tiempo, Santiago de Cali, Colombia, May 19<sup>th</sup> 2018, p.3.1.
16. "Culmino la cruzada por los 7 rios", El Pais, Santiago de Cali, May 20<sup>th</sup> 2018, p.B.1.
17. "Hydrology days 2019 at a Glance", Photo on the Cover page, Hydrology Days Organizing Committee – with N. Grigg, M. Arabi and J. Ramirez, Colorado water, August 2019, Colorado State University.
18. Podcast with Stanford Gibson, Feb 13, 2024.