



## **PIERRE Y. JULIEN, Ph.D., P.Eng.**

Professor of Civil and Environmental Engineering  
Engineering Research Center, B-205  
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**January 2017**

### **EDUCATION**

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

### **PROFESSIONAL EXPERIENCE**

Dr. Julien is professor of Civil and Environmental Engineering at Colorado State University (CSU). He has 35 years of Professional Engineering experience in the field of hydraulics and river sedimentation.

### **SUMMARY of RESEARCH ACTIVITIES**

Dr. Julien authored more than 500 scientific contributions including two textbooks, 25 book chapters and manuals, 185 refereed journal articles including 105 full papers in scientific journals, and 230 professional presentations and conference papers. He delivered 20 keynote addresses and guided more than 130 graduates (including 39 Ph.D.'s) to complete engineering degrees.

### **SELECTED PROFESSIONAL ACTIVITIES**

- ☐ 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 (2nd Ed. 2010)
- ☐ River Management Manual for the DID in Malaysia (2008-09)
- ☐ Associate Dean for Intl. Research and Development at CSU (2006-07)
- ☐ Steering Committee member of the UNESCO-IHP-ISI (2005-)
- ☐ Editor of the ASCE Journal of Hydraulic Engineering (2002-05)
- ☐ Textbook *River Mechanics*, Cambridge University Press (2002)
- ☐ Morphology of the Rio Grande, U.S. Bureau of Reclamation (1997-)

### **AWARDS and HONORS**

2015	Hunter Rouse Hydraulic Engineering Lecture of the ASCE/EWRI
2010	Best Reviewer of the ASCE J. Hydraulic Engineering
2004	Hans Albert Einstein Award of the ASCE

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## *Long Resume*

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### 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 REGISTRATION

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

### PROFESSIONAL EXPERIENCE

- Tenured Full Professor, Dept. of Civil and Environmental Engineering, CSU, 1995-present.
- Leader of the Hydraulics Program, Dept. of Civil & Env. Eng., CSU, 1996-00, and 2004-.
- Associate Dean for International Research and Development, CSU, 2006-07.
- 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, since 2002.
- 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.

## **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.

## 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. 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.
9. 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.
10. 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.
11. 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.
12. 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.
13. 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.
  14. 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.
  15. 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.
  16. Julien, P.Y., "*The Power of Collaborative Research*", **Invited Plenary Speaker** at the Central Water and Power Research Station, July 23, 2012, Pune, India.
  17. Julien, P.Y., "*Flood Modeling and Simulation*", **Keynote Speaker**, International Flood Control Symposium, Intekma Resort and Convention Center, January 16, 2013, Shah Alam, Malaysia.
  18. 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).
  19. 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).
  20. 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>
  21. Julien, P.Y., "*Hunter Rouse Hydraulic Engineering Lecture*," **Award Lecture**, World Environmental and Water Resources Congress, Austin, TX, May 20, 2015.
  22. 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.
  23. Julien, P.Y., "*Sediment Sources and Yield of Mountain Watersheds*", **Keynote Address**, XXVII Latin-American Hydraulics Congress, Lima, Peru, September 28, 2016.

## **WORKSHOPS AND SHORT COURSES**

- One Day Short Course: "Stream restoration and River Engineering", Latin American IAHR Congress, September 27, 2016, Lima, Peru.
- Eight Day Course: "River Mechanics and Sediment Transport – Key Concepts to Rehabilitate Watercourses and Fluvial Ecosystems," Laboratorio Nacional de Hidraulica, Universidad Nacional de Ingenieria, January 4-14, 2016, Lima, Peru.
- Five Day Course: "Principles of Applied Hydrology: Catchment Hydrology and Sediment Transport." Renewable Energy School (RES), University of Akureyri, June 21-25, 2010, Akureyri, Iceland.
- Two Day Short Course on Sediment Transport, Faculty of Civil Engineering, Universiti Teknologi MARA, April 6-7, 2010, Shah Alam, Selangor, Malaysia.
- Four Day Short Course: "TREX 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.
- One and one-half Day Short Course on Sedimentation in Dam and Reservoir: Problems and Solutions, Department of Civil Engineering, Universiti Tenaga Nasional, UNITEN, July 20-21, 2006, Selangor Darul Ehsan, Malaysia.
- One and one-half Day Short Course on River Protection and Watershed Modeling, Faculty of Civil Engineering, Universiti Teknologi MARA, May 26-27, 2006, Shah Alam, Selangor, Malaysia.
- Three-day Short Course on River Engineering and Stream Rehabilitation, organized by the Key State Laboratory, College of Water Resources and Hydropower, Wuhan University, Sept. 19-21, 2005, Wuhan, China.
- Invited Speaker at the three-day "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.
- 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.
- Organized a Short Course on Flood Hazard Mitigation, Cliff Lodge at Snowbird Utah, October 5-7, 1998.
- Organized a Short Course on Debris Flow Modeling Using FLO2D, World Trade Center, San Francisco, August 5-6, 1997.
- 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 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**

- ☐ Member of the CSU President’s Club, 2005-
- ☐ Member of the CSU 1870 Club, 1999, 2003-10, 2011-
- ☐ Fellow Cooperative Institute for Research in the Atmosphere (CIRA), 1990-
- ☐ Graduate Student Masters of Engineering Plan C - Water Resources Track Adviser
- ☐ Member of the Order of the Engineer Committee at CSU, 1996-
- ☐ Member of the CEE Scholarship Committee, 2011-
- ☐ Member and Chair of the CEE Accreditation Committee 2014-17
- ☐ Elected Member of the CEE Promotion Committee, 2015-
- ☐ Member of the CEE Department Review Committee, 2015-

- Elected Member and Chair (2014-15) of the Promotion Committee, Department of Civil and Environmental Engineering, 2010-15.
- Coordinator of the Hydraulics and Wind Engineering Division, 2003-15.
- Elected member and Chair (2012-13) 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.
- Elected Member (and Chair 2007) 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, College of Engineering Advisory Board, 2004-07
- Member, Program Review Committee for the Department of Music Theater and Dance, 2007.
- Elected Member (Chair-2006), 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 of the Civil Engineering Awards Committee, 1997, member 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.

## **PROFESSIONAL AFFILIATIONS AND MEMBERSHIPS**

- ☐ Professional Engineer registration and member of the Ordre des Ingénieurs, Québec, Canada (P. Eng. License # 32325) since 1980.
- ☐ 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).
  - Member of the American Society of Civil Engineers (ASCE # 239111).
  - Member of the International Association for Hydraulic Research (IAHR # 10818).
  - Member of the American Geophysical Union (AGU).
  - Member of the American Society on Engineering Education (ASEE).
  - Fellow of the Cooperative Institute for Research in the Atmosphere (CIRA).
  - Member of the American Water Resources Association (AWRA # 14192).
  - Member of the International Water Resources Association (IWRA).
  - Member of the Steering Committee of UNESCO-IHP-ISI.
  - Founding Member of the World Association for Sediment and Erosion Research (WASER).
- 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) until 1980-90.
- Past member of the American Water Foundation (AWF) until 1987.
- Past member of the Association of Sedimentologists 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

- 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 to be held at 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, Colorado.
- 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 at the Order of the Engineers Ring Ceremony, December 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 presentation on the History of the Order of the Engineer, CSU, May 13, 1999.
- 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 Session Moderator at the ASCE/IAHR Congress on Water for a Changing Global Community, San Francisco, California, August 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 Conference in Fort Collins, Colorado, 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

- Member of the International Scientific Committee of the 37<sup>th</sup> IAHR World Congress 2017, August 13-18, Kuala Lumpur, Malaysia, 2017.
  - Member of the International Scientific Advisory Committee of the International Symposium on River Sedimentation, Stuttgart, Germany, September 19-22, 2016.
  - Member of the Scientific Committee of the 38<sup>th</sup> World Congress of IAHR, Panama, 2019.
  - Steering Committee Member of the International Sediment Initiative of UNESCO-IHP, 2005-
  - International Advisory Board member of the Journal of Hydro-Environment Research, 2007-
  - Review Board Member and Editorial Board member of the International Journal on Sediment Research, 2008-
  - International Collaborator, Institute for Infrastructure Engineering and Sustainable Management, Universiti Teknologi MARA, Shah Alam, Malaysia, 2010-
  - Alternate Member of the Sub-committee on Sedimentation (SOS), ACWI - Federal Inter-Agency Committee, 2010-
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- Invited Lecture at the K-water Headquarters, Daejeon, January 18, 2017.
  - Invited Keynote Speaker at the XVII Latin American Congress on Hydraulics, Lima, Peru, September 28, 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, Vive-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 Symposio 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, January 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" at the Korean Institute of Construction Technology, Seoul, 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, Department of 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, 2006, 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, Sept. 14, 2005, Seoul, South Korea.
- Invited Lecture on Typhoon Maemi and Hurricane Katrina, Incheon Regional Environmental Technology Development Centre (IRTDC), Incheon University, Sept. 13, Incheon, South Korea.
- 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 International Symposium on Environmental Hydraulics (ISEH), Hong Kong, December 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, October 18-21,

2004.

- Founding member of the World Association for Sediment Research WASR, 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 13th 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 in 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 on soil erosion at the CSCE Hydrotechnical Conference in Saskatoon, Canada, 1985.

## **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, AGU, IAHR, JGR, JASC, Catena, Sed. Geol., J. Hydrol., IASTED, IJSR, and numerous conferences articles.
- Reviewed more than 350 refereed journal papers from 2006-16.
- Reviewer of about 80 proposals for NSF, ARO, USBR, SERDP, NSERC, etc.

- Reviewer of more than 50 books, book proposals and reports since 2006.

## PROFESSIONAL STUDIES

- Analysis of the morphological changes of the Rio Grande River since the construction of Cochiti Dam, for the U.S. Bureau of Reclamation, Albuquerque, since 1997.
- 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 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.

## **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 recent applications at Naesung stream South Korea, and 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, in collaboration 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 Tremp 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.

## **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.

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

	Name	Dissertation Topic	Degree	Graduation
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)	Mesoscale runoff	Ph.D.	Spring '97
18.	B. Johnson	CASC2D-SED	Ph.D.	Spring '97
19.	J. Guo	Wake flow functions	Ph.D.	Summer '98
20.	J. Jorgeson	Flash floods	Ph.D.	Summer '99
21.	A. Sharma	Subsurface modeling	Ph.D.	Spring '00
22.	G. Richard	Channel morphology	Ph.D.	Spring '01
23.	R. Rojas	Upland erosion	Ph.D.	Summer '02
24.	S. Akalin	Mississippi River	Ph.D.	Summer '02
25.	B. Bounvilay	Bedload part. velocity	Ph.D.	Fall '02
26.	C. Leon	Rio Grande modeling	Ph.D.	Spring '03
27.	B. Kane	Specific degradation	Ph.D.	Summer '03
28.	M. Velleux	Fate and transport	Ph.D.	Fall '05
29.	J. England	PMF modeling	Ph.D.	Spring '06
30.	U. Ji	Sediment flushing	Ph.D.	Fall '06
31.	Y.H. Shin	Flow pulses	Ph.D.	Fall '07
32.	S. Shah-Fairbank	Modified Einstein	Ph.D.	Fall '08
33.	S.D. An	Density currents	Ph.D.	Fall '11
34.	J. Halgren	Watershed modeling	Ph.D.	Fall '12
35.	J.H. Kim	Debris flow mapping	Ph.D.	Fall '12
36.	J. Abdullah	Tropical Floods	Ph.D.	Summer '13
37.	S. Nur Muhammad	Monsoon rainfall	Ph.D.	Fall '13
38.	K. Park	Sediment Plugs	Ph.D.	Fall '13
39.	H.Y. Kim	Dredging Management	Ph.D.	Summer '16
40.				

□	K.M. Lim	Typhoon surges	Advanced
□	P. O'Brien	Climate change	Advanced
□	M. Palu	Dam Break	In Prog.
□	N. Andika	Mud volcano	In Prog.
□	W. Li	Shallow water	In Prog.
□	W. Kang	Ungauged watersheds	In Prog.
□	C. Yang	Sediment yield	In Prog.

### **Invited External/Co-advisor**

- Soo Huey Teh, RES, Akureyri, Iceland M.S. May 2011
- Jansen Luis, Uniten, Kuala Lumpur Malaysia – Ph.D. in progress.

### **Invited Ph.D. External 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 Jose M. Monsalve, Ph.D., Univ. Politecnica de Valencia, Spain, 2008.
- Caroline Le Bouteiller, Ph.D. Cemagref, Université Joseph Fourier, Grenoble, France, May 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.

### **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.
- Dr. 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.

## M.S. STUDENT ADVISEES

### 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	Hydraulic geometry of Rio Grande	M.S.	Sum '98
8.	T. Bauer	Rio Grande hydraulic geometry	M.S.	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	Gravel-bed transport	M.S.	July '01
13.	M. Sixta	Rio Grande migration	M.S.	Spring '04
14.	J. Albert	Double Mass Curves	M.S.	Fall '04
15.	D. Kang	Snowmelt modeling	M.S.	Fall '05
16.	S. Shah	Modified Einstein	M.S.	Fall '05
17.	S. Novak	Rio Grande	M.S.	Spring '06
18.	H.S. Kim	Upland Erosion	M.S.	Spring '06
19.	A. Larsen	Rio Grande-Escondida	M.S.	Spring '07
20.	N. Friesen	Supercritical waves	M.S.	Spring '07
21.	T. Owen	Rio Grande - Elephant Butte	M.S.	Spring '12
22.	S. Sahaar	Erosion Mapping in Afghanistan	M.S.	Fall '13
23.	A. Steininger	Modeling dam overtopping	M.S.	Spring '14
24.	P. Ndolo Goy	Turbidity Modeling	M.S.	Spring '15

□

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

1.	A. Eimer	-	M.S.	May '87
2.	D. Hoelzer	-	M.S.	May '87
3.	C. Azuero	-	M.S.	July '87
4.	B. Saghafian	-	M.S.	July '88
5.	J. Wargadalam	-	M.S.	March '89
6.	Y. Chen	-	M.S.	March '89
7.	M. Tauzer	-	M.S.	Sum '95
8.	S. Akalin	-	M.S.	Spring '97
9.	R. Krehbiel	-	M.S.	Spring '97

10.	T. Dahl	-	M.S.	Spring '98
11.	A. Mendelsberg	Cohesive sediment transport	M.S.	Fall '03
12.	J. Duncan	Bendway weirs	M.S.	Fall '03
13.	F. Jay	Modified Einstein	M.S.	Spring '05
14.	C. Vensel	Mississippi River	M.S.	Fall '05
15.	C. Michalos	Tailing remediation	M.S.	Spring '09
16.	A. Shafie	Flood control	M.S.	Fall '09
17.	T. Bender	Bosque flooding	M.S.	Fall '11
18.	K. Cooper	Soil erodibility	M.S.	Spring '12
19.	C. Shrimpton	Sediment plug hypotheses	M.S.	Fall '12
20.	J. Rainwater	Rio Grande Sediment Plugs	M.S.	Spring '14
21.	O. Martyusheva	Smart water grids	M.S.	Fall '14
22.	N. Koutsunis	Climate Changes and Dams	M.S.	Fall '15
23.	A. Orechwa	Actinide Mine Tailings	M.S.	Fall '15
24.	K. Lai	Smart tunnel outlet	M.S.	Spring '16
25.	C. Horner	Silvery Minnows	M.S.	Fall '16
26.				
<input type="checkbox"/>	S. Cundiff	TBD	M.S.	new
<input type="checkbox"/>	K. Laforge	TDB	M.S.	new

### **M.Eng. STUDENT ADVISEES**

#### **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.	J. Snyder		M.Eng.	Spring '15
48.	K. Dembia (Ober)		M.Eng.	Summ '15
49.	A. Sabatino		M.Eng.	Fall '15
50.	K. Kubista		M. Eng.	Spring '16
51.	B. Rufenacht III		M.Eng.	Spring '16
52.	A. Morrison		M.Eng.	Fall '16

1.	T. Kostrubala	Plan C	Spring '16?
2.	K. Ku	Plan C	Summer '16?
3.	J. Weber	Plan C	Fall '16?
4.	S. DeGroot	Plan C	Fall '16?
5.	C. Haley	Plan C	Spring '17?
6.	P. Fischer	Plan C	Spring '17?
7.			

8.	T. Colledge	Plan C	In Prog.
9.	N. Choy	Plan C	In Prog.



10.	J. Dusel	Plan C	In Prog.
11.	M. Robson	Plan C	In Prog.
12.	J. Sanchez Tapetillo	Plan C	In Prog.
13.	M. Ludwig	Plan C	In Prog.
14.	J. Myers	Plan C	In Prog.
15.	M. Thomas	Plan C	In Prog.
16.	K. Werner	Plan C	In Prog.
17.	G. Turner	Plan C	In Prog.
18.	W. Lee	Plan C	In Prog.
19.	C. Peterson	Plan C	In Prog.
20.	J. Daignault	Plan C	In Prog.
21.			

1.	D. Moses	Plan C	New
2.	C. Castro	Plan C	New
3.	E. Simmons	Plan C	New
4.	B. Bingham	Plan C	New
5.	C. Allen	Plan C	New
6.	M. Meachum	Plan C	New
7.	M. Witiw	Plan C	New
8.	A. Farmand	Plan C	New
9.	Z. Tura	Plan C	New
10.	B. Bozoarth	Plan C	New
11.	R. Feldman	Plan C	New
12.	A. Esparza	Plan C	New

13.	J. Dixon	Plan C	Inactive since 2012
14.	D. Romero	Plan C	Inactive since 2012

### **Other advisees at CSU**

• Marielle Remillard, REU	Summer '07
• Kevin Hanegan, REU	Summer '08
• Quentin Benally, McNair/AGEP	Summer '08
• Anna Paris, Italy	2008-09
• Katharine Anderson, CSU	2009 (REU) & 2011(GRA)
• Michelle Ida, Malaysia	2011 (UiTM)
• Duangrudee Kositgittiwong,	2008 (PhD at KMUTT in 2012)
• Ladislav Rousar, Czech Republic	Fall 2013 (PhD in 2016)
• Christoph Matzke, Austria	Fall 2014 (PhD in Austria, 2015)
• George Gonçalves, Brazil	Summer '15

## 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 ISBN 0-521-63639-6 Paperback in 1998, 280p.  
<http://us.cambridge.org/titles/catalogue.asp?isbn=0521636396>  
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?

2. Julien, P.Y., ***River Mechanics***, 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.

### LECTURE MANUALS

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., 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.
9. Julien, P.Y., River Protection & Watershed Modeling, Short Course Presentation Slides for four Invited Lectures, prepared in collaboration with Dr. Junaidah Ariffin, Faculty of Civil Engineering, Universiti

- Teknologi MARA, Shah Alam, Selangor, Malaysia, May 2006, 71p.
10. Julien, P.Y., Sedimentation in Dams and Reservoirs: Problems and Solutions, Short Course Presentation Slides for four Invited Lectures, prepared in collaboration with Dr. Lariyah Mohd. Sidek, Head, Department of Civil Engineering, Universiti Tenaga Nasional, Selangor, Malaysia, July 20-21, 2006, 97p.
  11. 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.
  12. 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. University Gadjah Mada, Yogyakarta, Indonesia, July 22-23, 2009, 83p.
  13. Julien, P.Y. Lecture Material for a 8 day course on the topics of (1) Erosion and Sedimentation and (2) River Mechanics. Seminario Avanzado " Metodologia 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", Laboratorio Nacional de Hidraulica, Universidad Nacional de Ingenieria, Lima, Peru, January 4-14, 2016, 234p.
  14. 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", Latin American IAHR Congress, Lima Peru, September 27, 2016.

### **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,*" Section of the Encyclopedia of Physics, Wiley-VCH Publ. 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., U. Ji, M.L. Velleux, and J. Kim, "*Upland Erosion Modeling*", Chapter 9, in the Handbook of Environmental Engineering, *Volume 15, 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*," Encyclopedia of Natural Resources, Taylor and Francis, July 2014, 1086p. ISBN 9781439852583

## TECHNICAL 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. "*Modelling 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, pp. 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, pp. 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.
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### **REFEREED JOURNAL DISCUSSIONS, CLOSURES and BOOK REVIEWS**

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 alluvial 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, pp. 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.

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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, pp. 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, pp.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.
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  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.
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  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

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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, Vol. 130, No. 7, 2004, p. 726.
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  43. Julien, P.Y., Review of Rivers '04 Proceedings of the 1<sup>st</sup> International 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.S. Ahamad, J. of Hydraulic Engineering, ASCE, Vol. 131, No. 11, 2005, pp. 1026.
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  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.
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  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.
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  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, Edited by Marcelo H. Garcia, Journal of Hydraulic Research, IAHR, Vol. 52 No. 5, 2014, pp. 718-719. <http://dx.doi.org/10.1080/00221686.2014.951413>

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. Article 07515002.

### **OTHER INVITED GENERAL 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 laminares,*" 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 noncohesive 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.
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