Johannes Gessler, Ph.D., P.E.  
*Professor  
Associate Dean for Undergraduate Studies*

**Personal Information**  
  
Citizenship: U.S.A.  
Married: to Seraina Gessler-Stupan  
Three grown children

**Education**   
Dr.sc.techn. (equivalent to Ph.D.), Hydraulic Engineering   
Swiss Federal Institute of Technology, Zurich, Switzerland, 1966  
Diploma (equivalent to B.S. degree), Civil Engineering   
Swiss Federal Institute of Technology, 1960  
Extensive course work in graduate level Statistics courses   
Colorado State University

**Recognitions**   
Mortar Board - Outstanding Teacher in Engineering, 1997  
Abell Faculty Teaching Award, College of Engineering, 1991  
Chi Epsilon Gold Key Award, Civil Engineering, 1989  
Jack E. Cermak Advising Award, College of Engineering, 1988   
Academic Achievement Award, American Water Works Association, 1988; for research on optimization of water distribution systems  
Teaching Excellence Award, Halliburton Foundation, College of Engineering, 1984  
Distinguished Service Award for Advising , Colorado State University, 1974

**Research Interests**Erosion and sedimentation processes in rivers (Special emphasis on grain sorting processes and frictional characteristics)  
Computer assisted design of water distribution systems (Special emphasis on optimization of design)

**Professional** **Experience**

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| --- | --- |
| 8/91 – present | Associate Dean for Undergraduate Studies, College of Engineering, Colorado State University |
| 8/97 – 6/99 | Interim Dean, College of Engineering, Colorado State University |
| 8/90 - 8/91 | Interim Associate Dean for Undergraduate Studies College of Engineering, Colorado State University |
| 6/89 - 8/90 | Sabbatical Leave, University of Natal, Durban Republic of South Africa |
| 8/86 - 8/90 | Associate Department Head for Undergraduate Affairs, Department of Civil Engineering, Colorado State University |
| 8/85 - 8/86 | Acting Department Head, Department of Civil Engineering, Colorado State University |
| 8/76 - 1/77 | Sabbatical Leave, Swiss Federal Institute of Technology, Zurich, Switzerland |
| 1/66 - present | Assistant Professor, Associate Professor, Professor, Department of Civil Engineering Colorado State University |

Major Consulting World Bank  
Louisiana Board of Regents Support Fund, State of Louisiana  
Government of Ecuador (INECEL), Quito, Ecuador  
Water Research Commission, Pretoria, Republic of South Africa  
Agency for International Development  
City of Johannesburg, Republic of South Africa  
City of Pretoria, Republic of South Africa  
CH2MHill - International   
Geustyn-Loubscher-Streicher, Consultants, Stellenbosch,  
Republic of South Africa  
Electrowatt Consultants, Zurich, Switzerland  
Swiss Federal Institute of Technology, Zurich, Switzerland  
University of Natal, Durban, Republic of South Africa  
University of Kuwait, Kuwait City, Kuwait

**Courses Taught**

**Undergraduate Program**  
Freshman Computing  
Engineering Mechanics (Statics and Dynamics)  
Fluid Mechanics  
Hydraulic Engineering  
Advisor to various senior design groups

**Graduate Program**  
Dimensional Analysis and Modeling  
Erosion and Sedimentation  
River Mechanics  
Selected Topics in Hydraulic Engineering

**Organizations**  
Professional Registered Professional Engineer, Colorado, # 10894  
Registration Registered Professional Engineer, SIA, Switzerland  
Professional American Society of Civil Engineers - Fellow  
American Society of Engineering Education  
National Society of Professional Engineers  
Swiss Society of Engineers and Architects  
Tau Beta Pi  
Chi Epsilon  
Sigma Xi

**Publications**

**Books**  
TK Solver, A Tutorial, 2nd Edition - revised, McGraw-Hill, 1996.

TK Solver, A Tutorial, 1st Edition, McGraw-Hill, 1994.

TK Solver, A Tutorial, Department of Civil Engineering, Colorado State University, 1992.

Water Distribution Systems: Simulation and Sizing (with Walski and Sjostrom), Lewis Publishers, 1990

In Closed-Conduit Flow, Chaudhry and Yevjevich - Editors, WRP, 1980.

Pipe Network Analysis, Chapter 4. In Stochastic Approaches to Water Resources, H. W. Shen - Editor WRP, 1976.

Stochastic Aspects of Incipient Grain Motion, Chapter 25. In River Mechanics, H. W. Shen - Editor, WRP, 1971.

Beginning and Ceasing of Sediment Motion, Chapter 7.

Aggradation and Degradation, Chapter 8.

Modeling of Fluvial Processes, Chapter 21.

Research Needs in Fluvial Processes, Chapter 32.

**Significant Recent Journal Articles**  
Gessler, J., D. Gessler and C.C. Watson, "Prediction of Discontinuity in Stage-Discharge Rating Curves", Journal of Hydraulic Engineering, ASCE, Vol. 124 No. 3, 1998.

Gessler, J., et al, "Women in Public Works: The Engineering Pipeline", Journal of Public Works Management and Policy, October 1997.

Gessler, J., "Friction Factor of Armored River Beds", Journal of Hydraulic Engineering, ASCE, Vol. 116 No. 4, 1990.

Gessler, J. and B. F. Loubser, "Computer-Aided Optimization of Water Distribution Networks", The Civil Engineer of South Africa, October 1990.

Gessler, J. and T. Walski, "Selecting Optimal Pipe Sizes for Water Distribution Systems", Journal AWWA, February 1988.

Gessler, J., et al, "Management Systems for Urban Water Distribution Systems", Journal of Pipelines, May 1987.

Gessler, J., et al, "Battle of the Network Models: Epilogue", Journal of Water Resources Planning and Management, ASCE, March 1987.

**Significant Recent Conference Papers**  
Gessler, J. and D. Gessler, "Pipe Network Analysis and Design in Developing Regions; Case Study Novokuznetsk, Siberia", ASCE North American Water and Environment Congress Anaheim, CA, June 1996.

Gessler, J. and B. F. Loubser, "Computer Aided Optimization of Water Distribution Networks", Proceedings, International Conference - Computer Applications in Water Supply and Distribution, DeMonfort University, Leicester, UK, September 1993.