

November 27, 2015

Presidential Search Committee  
University of New Orleans  
c/o Witt/Kieffer  
2015 Spring Rd., Ste. 510  
Oak Brook, IL 60523

Dear Search Committee Members:

Please accept my application for the position of President at the University of New Orleans. I offer an administrative skill set that is well suited to growing the University's undergraduate and graduate student body, improving outcomes from fundraising and partnerships, and developing and supporting a diverse faculty and staff. My greatest strengths are my decisive leadership and resource management skills and my ability to cultivate and sustain relationships with internal and external constituencies. I offer proven experience in expanding educational opportunities to new markets and populations, in implementation of innovative student success initiatives, and in strategic planning. My record further demonstrates a commitment to strong academic values and entrepreneurial academic programming and financial planning.

I have served as Provost and Vice President for Academic Affairs at the University of New Orleans since July 1, 2015. I currently oversee the campus' academic enterprise, as well as the Office of Research, Enrollment Services, and Information Technology, together accounting for over 65 percent of the campus' \$101 million budget. During my tenure at the University, I have worked to build an entrepreneurial spirit across Academic Affairs, to create accountability for results, and to lead efforts that support a larger, more diversified enrollment portfolio and growth in research. The last few months have confirmed my initial impressions of the campus: a tremendous number of opportunities lay before us, and the Institution can have a vibrant future with strategic leadership. My work has been laser focused on capitalizing on those opportunities. And as President, I would deliberately and enthusiastically build upon those efforts and elevate this entrepreneurial, yet accountable, focus to the campus level, including Student Affairs, Business Affairs, Athletics, University Advancement, and Marketing, in order to achieve new successes for the University of New Orleans and to help it realize its potential as a primary asset of New Orleans and the Gulf region.

Prior to my arrival at the University of New Orleans, I served as Provost and Vice Chancellor for Academic Affairs at Southern Illinois University. A total operating budget of more than \$613 million supported our 18,000 undergraduate, graduate, and professional students. Like the University of New Orleans, that Institution is a Carnegie Foundation High Research Activity University, and during my time as Provost, it was ranked by U.S. News and World Report as one of the Best National Universities and rated among the top 100 public universities in the nation. More than 5,000 faculty and staff, including 1,200 full-time faculty, supported 88 undergraduate programs and 110 graduate and professional programs. With oversight of an Academic Affairs budget of \$230 million, I played a significant role in the development and implementation of a 10-year strategic plan in 2011 that is followed closely today.

At both public institutions where I have served as Provost, only a minority of operational funds originate from the state legislature. As such, I am keenly aware of the ever increasing importance of tuition revenue and fundraising to support the academic enterprise; those willing to aggressively innovate to attract and retain students and community partners will outpace their peers because of this reality. I have experience in leading collaborative efforts to achieve growth in a complex financial environment, including new budget models, implementation of strategic faculty hiring plans, and financial incentive models for prioritizing and investing in academic programs. And within such a financial environment, I also understand the value of a diverse curricula

and a liberal arts education, especially within the framework of professional programs. As an engineer and educator, my technical and administrative career has greatly benefited from my understanding of society, culture, politics, communications, history, and economics. Likewise, I appreciate the value that extra-curricular activities bring to the overall student experience. For example, as a former NCAA Division I student-athlete, I developed leadership and teamwork skills that I still utilize today. Overall, I am a data- and goal-driven leader, but I also have great appreciation for human factors important in decision making.

Student enrollment, engagement, and success are the lifeblood of a university and are the foundation upon which I will work to advance the institutional mission. I believe that the undergraduate and graduate student body, both in its number and quality, must be a focal point around which all other activities at the University revolve. That focus strengthens our reputation in the eyes of the public, industrial partners, and alumni, justifies accountable growth of faculty and staff resources, and provides a mechanism for increasing external giving and scholarly research. In the four months since my arrival at the University of New Orleans, I have been successful in staging a number of initiatives that will yield improved enrollment and student completion at the Institution. I have led the campus in a strategic enrollment effort involving nearly 25 action teams and 140 faculty and staff organized around recruitment, retention, and algorithmic aid packaging initiatives. Those efforts are showing promising early results based on the number of prospects in our student enrollment funnel. I have coordinated the evaluation and restructuring of distance education to create the organization and financial incentive model needed to support a profitable, online enterprise that supplements our enrollment portfolio, and I am currently leading a redesign of academic advisement and integration of predictive analytics to identify and retain at-risk students. I have also created the Center for Teaching Innovation to support faculty in pedagogical and technological advances in support of improving student learning outcomes.

At Southern Illinois, my team was able to matriculate the largest and one of the most academically-talented freshmen classes in 20 years. The source of growth was, in part, due to an aggressive rebranding and marketing effort and the creation of SIU Extended Campus to support off-campus, online, and blended enrollment. Those efforts were successful in improving perceptions and reaching new student markets across the country, including stimulating a 116% growth in online and blended enrollments between 2011 and 2014. Prospective student and parent focus groups showed a dramatic shift in perception and supported an increasingly positive image among the public. I simultaneously oversaw creation of a new Center for Teaching Excellence and redesign of Information Technology, both intended to support faculty development and reward excellence in teaching. By integrating improved technology in the classroom, incentivizing innovation, utilizing predictive analytics (<http://www.vox.com/2014/7/14/5890403/colleges-are-hoping-predictive-analytics-can-fix-their-graduation-rates>), and launching Mobile Dawg – a project that provided all freshmen with tablet computers and pre-loaded e-texts for many course – these efforts had a direct positive impact on student persistence and learning outcomes. Retention of first-time, full-time students increased by 8.3 percentage points between 2013 and 2014. Prior to these initiatives, while in the College of Engineering at SIU, I led a series of new enrollment initiatives, ranging from a renewed marketing strategy and a new peer-mentoring program to a summer bridge program and a unique high-school robotics competition to pique interest in the engineering disciplines. Within two years of implementing these activities, new freshmen and transfer student enrollment increased by 26% and 53%, respectively, and first-year retention rates rose by 10%, to reach their highest levels in over a decade.

I am committed to growing and sustaining a diverse community where students and the campus community benefit from differences among individuals. At the University of New Orleans, diversity is a vital element of our new domestic and international recruitment plans, and we are working to assemble a Multi-Cultural Resource Center to support underserved student populations. At SIU, I led a 38% increase in international student enrollment between 2012 and 2014, resulting in the largest international student population in 30 years. Within Academic Affairs, I created the Center for Inclusive Excellence, consisting of the Women's Resource Center, Black Resource Center, Hispanic Resource Center, and LGBTQ Resource Center to facilitate student development and increased appreciation, respect, and engagement with diverse cultures.

As a scholar, I have maintained a strong record of supporting and involving students in research and publication efforts. My research has focused on optimization of complex systems, particularly of coupled

human-natural systems in the area of water resources. More recently, my work focuses on educational innovation and research that leads to improved learning outcomes and student persistence. More than 200 students have received support and training from my nearly \$5 million in water-related and education research initiatives. That kind of support is well known to provide students with supplemental training opportunities and increase the likelihood of student success. My commitment to undergraduate student success has led to the creation of the University of New Orleans' Center for Undergraduate Research and this year's PURSUE undergraduate research awards. I have also been focused on strategic faculty hiring, graduate program development, and increasing the quality of graduate research. At SIU, I worked with units to create and grow new, cross-disciplinary graduate programs in Fermentation Science, Advanced Energy and Fuels, and Supply Chain Management and Logistics, as well as a Ph.D. in Geology, an M.A. in Art History and Visual Cultures, and a new STEM Education Research Center.

Through my academic and administrative career, I have increasingly recognized the importance and value of fundraising and alumni development in the future financial stability of an institution. As Provost at the University of New Orleans, I am working with the Foundation to lead a new fundraising effort whereby, for the first time, the Provost and Deans maintain development portfolios and have expectations for attracting donor support. At SIU, I was responsible for floating between multiple donor portfolios maintained by the deans and my Chancellor. And I partnered with the Vice Chancellor for Development and Alumni Relations in the planning phase of an upcoming capital campaign. My successes in fundraising are highlighted by oversight of a \$1 million gift for a program called First Scholars – a comprehensive program for academic, social, and financial support of first-generation students – and by the single largest gift made to the SIU College of Engineering for student leadership development. I also contributed to the successful solicitation of a \$1 million gift for low-income student scholarships and a \$1.3 million gift to support students with disabilities.

My leadership philosophy is built on collaboration and transparency. As Provost, I have demonstrated an ability to collaborate and empower others to aspire towards and achieve success. I have done so by identifying and organizing key stakeholders, strategically utilizing and building upon individual strengths, and providing prioritized support and the resources, guidance, and encouragement needed to achieve well-defined expectations. At the core of this philosophy is my recognition of the value of inclusiveness among our students, faculty and staff and my belief in shared decision-making processes. These leadership principles instill pride, motivation, and a sense of vested teamwork by participants, and they ultimately translate into results for which the entire campus can be proud and take ownership. An effective leader also develops and maintains strong relationships and communication with those around them. One of the most rewarding elements of my previous and current positions has been my interaction and communication with a wide array of internal and external constituents: students, faculty and staff, alumni and potential industrial sponsors, leaders from high schools, community colleges and other institutions, and community and elected leaders. While Provost and during my other leadership roles, I have been able to facilitate open lines of communication, build consensus among constituents, and promote development of lasting relationships in order to overcome challenges, affect change, and advance the University. Finally, I firmly believe that students represent our most valuable stakeholders, and I am deeply committed to continuing my work to strengthen relationships with this important constituency, who will ultimately comprise our alumni and community supporters.

I strongly believe my experience and training are well matched to the position of President at the University of New Orleans, and I am dedicated to collaboratively leading the Institution toward a promising future. The attached curriculum vitae, with references, provides a detailed view of my qualifications for the position. I look forward to discussing this opportunity with you further.

Sincerely,



John W. Nicklow, Ph.D., P.E., P.H., D.WRE, F.ASCE

# *CURRICULUM VITAE*

## **John W. Nicklow**

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### **PROFESSIONAL AFFILIATION AND CONTACT INFORMATION**

Provost and Vice President for Academic Affairs, University of New Orleans

### **EDUCATION**

- Ph.D. in Civil Engineering, Arizona State University, Tempe, AZ, May 1998  
Rod J. McMullin Salt River Project Water Resources Scholar, 1997-1998  
Universities Council on Water Resources Outstanding Dissertation Award, Hon. Mention, 1998  
Dissertation: *Operation of Multiple Reservoir Systems to Control Sedimentation in Alluvial River Networks*
- M.S. in Civil Engineering, Bucknell University, Lewisburg, PA, May 1993  
Thesis: *Gamma Distribution Fitting of Dimensionless Unit Hydrographs for Pennsylvania*
- B.S. in Civil Engineering, Bucknell University, Lewisburg, PA, May 1993

### **EMPLOYMENT AND EXPERIENCE**

#### *Academic Administration*

*Provost and Vice President for Academic Affairs, July 2015 – Present*  
University of New Orleans, New Orleans, LA

- Responsibilities include administration of Academic Affairs, Research, Information Technology, Enrollment Services, Service Learning, the International Center, and SACSCOC accreditation.
- Leading an evaluation and improvement of distance learning, academic advisement and library services.
- Co-chairing a new University Budget Review Committee to identify fiscal priorities and operation principles.
- Implementing a campus-wide, strategic enrollment initiative, including comprehensive, rolling recruitment, retention, and algorithmic aid packaging strategies.
- Working to change the current academic advisement model and integrate predictive analytics to identify and support at-risk students.
- Created a Center for Teaching Innovation to support faculty in pedagogical and technological advances.
- Implemented a Provost Fellow program for faculty to gain training in academic affairs administration.
- Formed a new Distance Education Oversight Committee and am currently working to create the structure, organization, and finance models to support an online academic enterprise.
- Created the Center for Undergraduate Research and supported a new competitive grant program known as the Privateer Undergraduate Research and Scholarly Undergraduate Experience (PURSUE).

*Provost and Vice Chancellor for Academic Affairs, May 2011 – June 2015*  
Southern Illinois University, Carbondale, IL

- Responsibilities included Academic Affairs Administration, Information Technology, Enrollment Management, and Student Affairs, including a new Center for Undergraduate Research and Creative Activity, Center for Inclusive Excellence, Center for Service Learning, and Center for International Education.
- Provided leadership in development and implementation of 10-year strategic plan.
- Teamed with Chancellor, Vice Chancellor for Development and Alumni Relations, and Deans in managing fundraising portfolios and development of goals and strategies for the next capital campaign.
- Worked with Chancellor to develop and institute \$500 million program to address deferred maintenance and infrastructure needs; oversight of renovation of 65 classrooms and 6 teaching laboratories.
- More than tripled the size of the University Honors Program, from 220 in 2011 to over 800 in 2014.
- Increased overall student enrollment at SIU (17,989) following more than 10 years of consecutive declines. Fall 2013 and 2014 saw the largest freshmen classes in 20 years, with higher average academic profiles, the largest international student population (1,821) in 30 years, and strong increases in transfers and student persistence.

- Implemented *Mobile Dawg*, an initiative that provided all new freshmen with a tablet PC, pre-loaded with e-texts and materials needed for courses and with applications for campus engagement.
- Managed new, successful recruitment initiatives, including territorial recruitment and algorithmic aid packaging.
- Grew accredited online programs from 6 to 21 in two years and increased online enrollments by 116%, to 4,717 students, from 2011 to 2014, with additional growth in new J-Term and summer sessions.
- Established cross-disciplinary, academic programs in Fermentation Science, Supply Chain Management and Logistics, and Advanced Energy and Fuels, as well as new programs in Geology, Africana Studies, Art History and Visual Culture, and STEM Education.
- Implemented collaborative, campus-wide initiatives and efficiency measures, including college faculty hiring plans, academic policy review/revision, administrative downsizing, and program design and review protocol.
- Created centralized First-Year Advisement and implemented campus-wide predictive-analytics platform and technology enhancement for improved student advisement and persistence.

*Assistant Provost for Enrollment Management, June 2010 – May 2011*

Southern Illinois University, Carbondale, IL

- Responsible for Enrollment Management, consisting of Undergraduate Admissions, New Student Programs, Financial Aid, Transfer Student Services, Registrar, Bursar, and International Programs and Services.
- Oversight of a major restructuring of the Offices of Undergraduate Admissions and Financial Aid, and led development of new, successful recruitment strategies.
- Initiated a sophomore, junior and senior search and fulfillment campaign that more than tripled the number of prospective students in the enrollment funnel.
- Instrumental in the coordination of several major campus initiatives, including the University College, a new rebranding and marketing effort, expansion of online learning and off-campus programs, and a strengthening of partnerships with high schools and community colleges.

*Associate Dean, July 2006 – June 2010*

College of Engineering, Southern Illinois University, Carbondale, IL

- Responsible for academic affairs of 1,300 undergraduate and graduate students, including recruitment and retention efforts, student support services, minority engineering, and academic advisement, and served as Director of the Engineering Ph.D. program.
- Established new programs aimed at improving student retention, including an Engineering Residential College, a multi-tiered mentoring program, and a new first-year experience course for engineering majors.
- Played a guiding role in College accreditation efforts and in 2006 and 2008 visits by ABET reviewers.
- Established new marketing and recruitment initiatives for the College, including a young women's summer day camp for grades 5-8, a high-school robotics competition called Engineering Design Squads, and a newly designed website, video productions, and social networking functions for alumni and students.
- Generated \$400,000 in cash support for the College's portion of a capital campaign.

*Acting Chair, July 2005 – December 2005*

Department of Civil and Environmental Engineering, Southern Illinois University, Carbondale, IL

- Responsible for fiscal and personnel management, student advisement, and course scheduling.
- Led program assessment efforts and initiatives to increase student recruitment and registration.
- Maintained alumni and donor relations, including developing an annual alumni newsletter and acquiring MWH Soft Excellence in Education grant (\$80,000) for support of departmental teaching software.

***Academic Appointments***

*Professor, July 2015 – Present*

Department of Civil and Environmental Engineering, University of New Orleans, New Orleans, LA

*Professor, July 2007 – June 2015*

*Associate Professor, July 2003 – June 2007*

*Assistant Professor, August 1998 – June 2003*

Department of Civil and Environmental Engineering, Southern Illinois University, Carbondale, IL

- Taught undergraduate and graduate courses in hydraulic and hydrologic systems engineering.
- Established an active research program in water resources systems engineering with nearly \$5 million of external research support from federal, state, and private entities.
- Published over 75 articles and authored four books.
- Chaired 22 masters and doctoral committees, and served as graduate committee member for another 24 students.

### ***Other Employment***

*Environmental Engineering Officer, Lieutenant J.G., May 1993 – January 1997*

U.S. Public Health Service, Sells, AZ and Casa Grande, AZ

- Responsible for the planning, design and construction management of water supply and waste disposal facilities for American Indian communities on the Tohono O’odham Indian Reservation.
- Formulated multi-agency efforts and built consensus for plans at tribal/community and agency meetings.
- Administered approximately \$5 million of federal project construction.

### **HONORS AND KEY DESIGNATIONS**

Registered Professional Engineer, State of Arizona, Certificate No. 31134.

Registered Professional Engineer, State of Illinois, Certificate No. 062-052763.

Certified Professional Hydrologist, American Institute of Hydrology, Certificate No. 1560.

Certified Diplomate, American Academy of Water Resources Engineers, Certificate No. 00165.

Elected Fellow, American Society of Civil Engineers, No. 267389.

American Council on Education, Advancing to the Presidency Program, 2014.

Associate Editor Award Winner, J. of Hydrology, Elsevier, 2013.

American Council on Education, Center for Effective Leadership, Institute for Chief Academic Officers, 2011.

College of Engineering Excellence through Commitment Outstanding Teaching Award, SIU, 2006.

National Excellence in Engineering Education Award, MWH Soft, Inc., Pasadena, CA, 2005.

Dean Juh Wah Chen Outstanding Faculty Research Paper Award, SIU, 2002.

Dean Kenneth E. Tempelmeyer Outstanding Faculty Research Award, SIU, 2002.

New Faculty Excellence in Teaching Award, American Society of Civil Engineers, Washington, D.C., 2002.

Dean Thomas B. Jefferson College of Engineering Outstanding Teacher Award, SIUC, 2002.

Distinguished Faculty Award, Undergraduate Student Government, SIUC, 2001.

Outstanding Teacher Award, College of Engineering, SIUC, 1999.

Outstanding Teacher Award, Department of Civil Engineering, SIUC, 1999.

Excellence in Civil Engineering Education (ExCEEEd) Teacher Training Fellowship, United States Military Academy, American Society of Civil Engineers.

### **SERVICE ACTIVITIES**

#### ***Professional***

Keynote speaker, Southwest Symposium for Contemporary Engineering Topics, New Orleans, LA, 2015.

Associate of Public and Land-Grant Universities, Academic Affairs Council, Member, 2011-2015.

American Council of Education, Association of Chief Academic Officers, Member, 2013-2015.

Associate Editor, Journal of Hydrology, Elsevier, 2007-2015.

Southern Illinois Research Park, Board Member, 2011-2014.

Track Manager and Chair, Evolutionary Computation in Environmental and Water Resources Engineering, Annual World Water and Environmental Resources Congress, 2005-2011.

Editorial Board Member, Int’l Conference on Civil, Structural and Environmental Engineering Computing, 2005.

International Water Resources Assoc., Executive Board Member, Treasurer, 2004-2006.

Consortium of Universities for the Advancement of Hydrologic Science, Inc., Campus Representative, 2004-2014.

International Program Committee for the International Federation of Automatic Control Workshop (“Modeling and Control of Environmental Systems, 2004, Venice, Italy), Member, 2003-2004.

Systems Committee of the Environmental and Water Resources Institute, ASCE, Member, 2002-2008.

Task Committee on Evolutionary Computation in Environmental and Water Resources Engineering, American Society of Civil Engineers, Member, 2001-2004, Chair, 2005-2010.

Task Committee on Environmental and Water Resources Systems Education, American Society of Civil Engineers, Member, 2004-2010.

Task Committee on Systems Analysis for Watershed Management, American Society of Civil Engineers, Member, 2005-2009.

International Water Resources Assoc., Executive Board Election Committee, Member, 2000.

Working Group and Government Recommendation Committee on the Role of Desalination in Averting a Global Water Crisis, Member, 1999.

### *University*

Distance Education Council, Member, 2010-2011.

Learning Management System Task Force, Chair, 2010-2011.

Graduate Enrollment Working Group, Member 2010.

Saluki First Year, Executive Council, Member 2010.

Strategic Enrollment Planning Committee, Retention Subcommittee, Chair, 2009.

SIUC/SIUE System-Wide Summit Council, Member 2009-2010.

Department of Athletics, Head Women's Basketball Coach Search Committee, Member, 2009.

Math Placement Task Force, Member, 2009-2010.

Intercollegiate Athletics Advisory Committee, Member, 2004-2006, 2011; Chair, 2006-2010.

First Year Experience Steering and Implementation Committee, Member, 2008-2010.

SIUC Foundation, Development Officer Search Committee, Chair, 2008.

Department of Athletics, Academic Progress Report (APR) Improvement Committee, Member, 2007-2009.

Department of Athletics, Head Football Coach Search Committee, Member, 2007.

Intellectual Property Committee, Member, 2007-2011.

Department of Technology Chair Search Committee, Chair, 2007.

Differential Tuition Committee for College of Engineering, Chair, 2007.

Engineering Outreach Field Representative Search Committee, Chair, 2007.

SIUC Enrollment Management Strategic Planning Committee, Chair, 2007.

Accreditation Subcommittee for North Central Association Accreditation, Member, 2007-2008.

Community College Curriculum Articulation Committee, Member, 2007-2008.

Student Leadership Task Force, Member, 2006-2007.

Tau Beta Pi (Engineering Honor Society) Advisory Board, Member 2006-2011.

SIUC Research Advisory Committee, Member, 2005-2011.

Advisory Committee, SIUC Center for Graduate Teaching Excellence, Member, 2005-2009.

Faculty Affairs Committee, Department of Civil and Environmental Engineering, Member, 2005-2006.

Chancellor's Faculty Excellence Concept Team, Member, 2004-2005.

Department of Technology Chair Search Committee, Chair, 2005.

Assessment Committee, Dept. of Civil and Environmental Engrg., Member, 2004 -2005; Chair, 2006.

Search Committee for Two Faculty Strategic Hires, Member 2004-2005.

Selection Committee, College of Engineering Outstanding Faculty Research Award, Member, 2003-2005.

Selection Committee, College of Engineering Outstanding Faculty Paper Award, Member, 2003-2005.

University Outstanding Dissertation Award Committee, Member, 2003-2004.

Engineering Ph.D. Program Committee, Member, 2002-2005.

Engineering Student Council, Faculty Advisor, 2002-2008.

Provost and Vice Chancellor Screening and Search Committee, Member, 2001-2002.

Equipment and Computer Committee, Dept. of Civil and Environ. Engrg., Member, 2000-2002; Chair, 2003.

Civil Engineering Chairperson Search Committee, Member, 1999 and 2002.

Curriculum Committee, Department of Civil Engineering, Member, 1998; Chair, 1999.

## **Community**

Epiphany Church, Council Member, 2010-2013.  
Carbondale Sports, Board Member, 2008-2009; Vice-President 2010.  
Carbondale Sports, Pony Baseball Coach, 2008-2010.  
Carbondale Upward Basketball, League Coach, 2007-2011.  
Carbondale Sports, NFL Flag Football Coach, 2008-2010.  
Carbondale New School, Strategic Planning Board, 2008-2010.  
Illinois Junior Academy of Science, Science Fair Judge, 2000.  
Illinois Junior Science and Humanities Symposium, Volunteer, 1999.

## **PUBLICATIONS**

### **Books**

Nicklow, J.W. and Boulos, P.F. (2007). *Essential Water and Wastewater Calculations for Engineers and Operators*, MWH Soft, Inc., Pasadena, CA.  
Nicklow, J.W., Boulos, P.F., and Muleta, M.K. (2006). *Comprehensive Urban Hydrologic Modeling Handbook for Engineers and Planners*, MWH Soft, Inc., Pasadena, CA.  
Nicklow, J.W. and Boulos, P.F. (2005). *Comprehensive Water and Wastewater Treatment Plant Hydraulics Handbook for Engineers and Operators*, MWH Soft, Inc., Pasadena, CA.  
Nicklow, J.W., Boulos, P.F., and Muleta, M.K. (2004). *Comprehensive Sewer Collection Systems Analysis Handbook for Engineers and Planners*, MWH Soft, Inc., Pasadena, CA.

### **Articles in Professional Journals**

Artita, K., Kaini, P., and Nicklow, J.W. (2013). "Examining the possibilities: Generating alternative watershed-scale BMP designs with evolutionary algorithms." *Water Resources Management*, 27(11), 3849-3863.  
Kowalchuk, R.K., DeRuntz, B.D., and Nicklow, J.W. (2013). "Investing in engineering student leaders through industrial and STEM partnerships." *Quality Approaches in Higher Education*, 4(1): 23-30.  
Kaini, P., Artita, K., and Nicklow, J.W. (2012). "Optimizing structural best management practices Using SWAT and genetic algorithm to improve water quality goals." *Water Resources Management*, 26(7): 1827-1845.  
Dessalegne, T. and Nicklow, J.W. (2012). "Artificial life algorithm for management of multi-reservoir river systems." *Water Resources Management*, 26(5): 1125-1141.  
Nicklow, J.W., Reed, P., Savic, D., Dessalegne, T., Harrell, L., Chan-Hilton, A., Karamouz, M., Minsker, B., Ostfeld, A., Singh, A., and Zechman, E. (2010). "State of the art for genetic algorithms and beyond in water resources planning and management." *J. of Water Resources Planning and Management*, ASCE, 136(4): 412-432.  
Bekele, E.G. and Nicklow, J.W. (2007). "Multi-objective automatic calibration of SWAT using NSGA-II." *J. of Hydrology*, Elsevier, 341: 165-176.  
Muleta, M.K., Nicklow, J.W., and Bekele, E.G. (2007). "Sensitivity of a distributed watershed simulation model to spatial scale." *J. of Hydrologic Engineering*, ASCE, 12(2): 163-172.  
Nicklow, J.W., Marikunte, S.S., and Chevalier, L.R. (2007). "Balancing pedagogical and professional practice skill in the training of graduate teaching assistants." *J. of Prof. Issues in Engineering Education and Practice*, ASCE, 133(2): 89-93.  
Lant, C.L., Kraft, S.E., Beaulieu, J., Bennett, D., Loftus, T., and Nicklow, J.W. (2005). "Using GIS-based ecological-economic modeling to evaluate policies affecting agricultural watersheds." *Ecological Economics*, Elsevier, 55(4): 467-484.  
Bekele, E.G. and Nicklow, J.W. (2005) "Multiobjective management of ecosystem services by integrative watershed modeling and evolutionary algorithms." *Water Resources Research*, AGU, 41(10), W10406, doi:10.1029/2005WR004090.  
Muleta, M.K. and Nicklow, J.W. (2005). "Sensitivity and uncertainty analysis coupled with automatic calibration for a distributed watershed model." *J. of Hydrology*, Elsevier, 306: 127-145.



- Muleta, M.K. and Nicklow, J.W. (2005). "Decision support for watershed management using evolutionary algorithms." *Journal of Water Res. Planning and Mgmt.*, ASCE, 131(1): 35-44.
- Muleta, M.K. and Nicklow, J.W. (2004). "Joint application of artificial neural networks and evolutionary algorithms to watershed management." *Water Resources Management*, Kluwer, 18(5): 459-482.
- Dessalegne, T., Nicklow, J.W. and Minder, E. (2004). "Evolutionary computation to control unnatural water level fluctuations in multi-reservoir river systems." *River Research and Applications*, Wiley, 20(6): 619-634.
- Nicklow, J.W. and Hellman, A.P. (2004). "Optimal design of storm water inlets for highway drainage." *J. of Hydroinformatics*, IWA." *J. of Hydroinformatics*, IWA, 6(4): 245-257.
- Oertel, A.O. and Nicklow, J.W. (2003). "Evaluation of ground water denitrification at a biosolids disposal site." *Environmental Monitoring and Assessment*, Kluwer, 87(1): 1-31.
- Nicklow, J.W., Ozkurt, O., and Bringer, J.A. (2003). "Control of channel bed morphology in large-scale river networks using a genetic algorithm." *Water Resources Management*, Kluwer, 17(2): 113-132.
- Kraft, S.E., Lant, C.L., Beaulieu, J., Duram, L., Ruhl, J.B., Bennett, D., Adams, J., Nicklow, J.W., Loftus, T. (2002). "Planning in multiple-ownership watersheds: Social, agricultural and hydrological factors." *J. of Soil and Water Conservation*, SWCS, 57(5): 285-307.
- Muleta, M.K. and Nicklow, J.W. (2002). "Evolutionary algorithms for multiobjective evaluation of watershed management decisions." *J. of Hydroinformatics*, IWA, 4(2): 83-97.
- Richardson, J.P. and Nicklow, J.W. (2002). "In situ permeable reactive barriers for groundwater contamination." *Soil and Sediment Contamination*, AEHS, 11(2): 241-268.
- Nicklow, J.W. and Muleta, M.K. (2001). "Watershed management technique to control sediment yield in agriculturally dominated areas." *Water International*, IWRA, 26(3): 435-443.
- Nicklow, J.W. and Mays, L.W. (2001). "Optimal control of reservoir releases to minimize sedimentation in rivers and reservoirs." *J. of American Water Res. Assoc.*, AWRA, 37(1): 197-211.
- Nicklow, J.W. and Mays, L.W. (2000). "Optimization of multiple reservoir networks for sedimentation control." *J. of Hydraulic Engineering*, ASCE, 126(4): 232-242.
- Nicklow, J.W. (2000). "Discrete-time optimal control for water resources engineering and management." *Water International*, IWRA, 25(1); 89-95.

### **Book Chapters**

- Nicklow, J.W., Misgna, G., Lant, C.L., and Kraft, S.E. (2013). "Evolution of agricultural watersheds in a systems management framework." In *Water Resources Systems Analysis Through Case Studies: Data and Models for Decision Making*. D. Watkins (Ed). American Society of Civil Engineers, Reston, VA.
- Chevalier, L.R. and Nicklow, J.W. (2006). "Web based projects for Civil and Environmental Engineering education: Pedagogy, assessment and lessons learned." In *Innovations 2006: World Innovations in Engineering Education and Research*. W. Aung, C. Croshwaite, R.V. Espinosa, J. Moscinski, S-H. Ou, and L.M. Ruiz (Ed). International Network for Engineering Education and Research (iNEER), Arlington, VA.
- Nicklow, J.W. (2005). "River-Reservoir System Operation for Sediment Control." In *Water Resources Systems Management Tools*. L.W. Mays (Ed). McGraw Hill, New York.
- Nicklow, J.W. (2003). "Design of Storm Water Inlets." In *Urban Stormwater Management Tools*. L.W. Mays (Ed). McGraw Hill, New York.
- Nicklow, J.W. (2003). "Dams." In *Water: Sciences and Issues*. E.J. Dasch (Ed). Macmillan Reference USA, Farmington Hills, MI.
- Nicklow, J.W. (2001). "Design of Storm Water Inlets." In *Stormwater Collection Systems Handbook*. L.W. Mays (Ed). McGraw Hill, New York.

### **Papers and Presentations at Professional Meetings**

- Yazdi, Z., Sayeh, M., and Nicklow, J. (2015). "Student yield maximization using genetic algorithms on a predictive enrollment neural network model." *Complex Adaptive Systems*, San Jose, CA, Nov. 2-4.
- Narusis, J., Kowalchuk, R., Neuhoﬀ, E., Palmer, J., DeRuntz, B., and Nicklow, J., (2015). "Leadership development program: Investing in future leaders." *American Educational Research Association Annual Meeting*, April 16-20.
- Nicklow, J., Vitter, J., and Renick, T. (2014). "Data-driven student success: Creating a culture where numbers matter." *APLU Annual Meeting*, Nov. 2.
- Kowalchuk, R., DeRuntz, B. and Nicklow, J. (2014). Hoshin Kanri X-Matrix Drives Engineering Leadership program success. *Proceedings of the 2014 ASEE Conference*, Indianapolis, IN, June 15-18.

- Nicklow, J. (2014). "Transforming student success: Harnessing the power of big data at Southern Illinois University." *EAB Webinar for University Provosts*, Feb. 27.
- Kopper, B., Arthur, V., Hensrud, F., and Nicklow, J. (2013). "Leadership in turbulent times: Turning crises and challenges into opportunities." *HLC Annual Meeting*, Chicago, IL. April 5-6.
- Kowalchuk, R., DeRuntz, B. and Nicklow, J. (2012). Student leadership program: Results and benefits. *Assoc. of Technology Management and Applied Engineering Conference*, Nashville, TN, Nov. 15-16.
- DeRuntz, B., Kowalchuk, R., and Nicklow, J. (2012). "Industrial and STEM partnership creates engineering student leaders." *ASQ STEM Conference*, Menomonie, WI, July 16-17.
- Voyles, E., Nguyen, D., Kowalchuk, R., Nicklow, J., and Ricks, R. (2011). "Engineering students' attitudes towards mathematics." *Midwestern Education Research Conference*, St. Louis, MO, October 12-15.
- Voyles, E., Kowalchuk, R., Nicklow, J., Ricks, R., and Eisenhauer, J. (2011). "Residential peer mentoring benefits mentees: What about mentors?" *Proceedings of the 2011 ASEE Conference*, Vancouver, BC, Canada, June 26-29.
- Kowalchuk, R., Green, T., Ricks, R., Nicklow, J. (2010). "Evaluation of a summer bridge program on engineering students' persistence and success." *Proceedings of the 2010 ASEE Conference*, Louisville, KY, June 20-23.
- Kaini, P., Nicklow, J., and Schoof, J. (2010). "Impact of Climate change projections and best management practices on river flows and sediment loads." *Proceedings of the 2010 World Water and Environmental Resources Congress, ASCE*, Providence, RI, May 16-20.
- Nicklow, J., Kowalchuk, R., Gupta, L., Tezcan, J., and Mathias, J. (2009). "A short-term assessment of a multi-faceted engineering retention program." *Proceedings of the 2009 Frontiers in Education Conference*, San Antonio, TX, Oct. 18-21.
- Ricks, R., Kowalchuk, R., Nicklow, J., Graceson-Martin, L. Gupta, L., Mathias, J., Tezcan, J., and Pericak-Spector, K. (2009). "Evaluation of a new engineering residential college initiative." *Proceedings of the 2009 ASEE Conference*, Austin, TX, June 14-17.
- Kaini, P., Artita, K., and Nicklow, J.W. (2009). "Generating different scenarios of BMP designs in a watershed scale by combining NSGA2 with SWAT." *Proceedings of the 2009 World Water and Environmental Resources Congress, ASCE*, Kansas City, MO, May 17-21.
- Tezcan, J., Mathias, J., Gupta, L., Nicklow, J.W., and Kowalchuk, R. (2009). "An innovative freshman engineering course to improve retention." *Proceedings of the 63<sup>rd</sup> EDGD Midyear Conference*, Berkeley, CA, Jan. 4-7.
- Tezcan, J., Mathias, J., Gupta, L., Nicklow, J.W., and Kowalchuk, R. (2008). "An innovative freshman engineering course to improve retention." *Proceedings of the 2008 ASEE Conference*, Pittsburgh, PA, June 22-25.
- Kaini, P., Artita, K., and Nicklow, J.W. (2008). "Designing BMPs at a watershed-scale using SWAT and a genetic algorithm." *Proceedings of the 2008 World Water and Environmental Resources Congress, ASCE*, Honolulu, HI, May 12-16.
- Artita, K., Kaini, P., and Nicklow, J.W. (2008). "Generating alternative watershed-scale BMP designs with evolutionary algorithms." *Proceedings of the 2008 World Water and Environmental Resources Congress, ASCE*, Honolulu, HI, May 12-16.
- Mathias, J., Gupta, L., Nicklow, J.W., Tezcan, J., Caffey, R., Chrisman, B., Pearson, C., Pericak-Spector, K., Kowalchuk, R., Lewis, E., and Sevim, H. (2007). "Improved retention through innovative academic and nonacademic programs." *Proceedings of the 2007 ASEE Conference*, Honolulu, HI, June 24-27.
- Bekele, E.G. and Nicklow, J.W. (2007). "Multi-objective optimal control model for watershed management using SWAT and NSGA-II." *Proceedings of the 2007 World Water and Environmental Resources Congress, ASCE*, Tampa, FL, May 15-19.
- Kaini, P., Artita, K., and Nicklow, J.W. (2007). "Evaluating Optimal Detention Pond Locations at a Watershed Scale." *Proceedings of the 2007 World Water and Environmental Resources Congress, ASCE*, Tampa, FL, May 15-19.
- Harackiewicz, F., Marikunte, S., Chevalier, L.R., and Nicklow, J.W. (2006). "An innovative approach to advising and mentoring of graduate students." *Proceedings of the Int'l Conference on Engineering Education*, San Juan, Puerto Rico, July 23-28.
- Marikunte, S., Nicklow, J.W., Harackiewicz, F., and Chevalier, L.R. (2006). "Benefits and challenges of training teaching assistants." *Proceedings of the 2006 ASEE Conference*. Chicago, IL, June 18-21.
- Nicklow, J.W., Chevalier, L.R., Ray, B.T., and Boruszkowski, L.A. (2006). "A video production for undergraduate recruitment and retention." *Proceedings of the 2006 World Water and Environmental Resources Congress, ASCE*, Omaha, NE, May 21-25.

- Bekele, E.G. and Nicklow, J.W. (2006). "Evolutionary algorithms for multi-objective automatic calibration of a semi-distributed hydrologic model." *Proceedings of the 2006 World Water and Environmental Resources Congress, ASCE*, Omaha, NE, May 21-25.
- Gillespie, W.E. and Nicklow, J.W. (2006). "Optimized pond design for water quality improvement in an upland agricultural basin." *Proceedings of the 2006 World Water and Environmental Resources Congress, ASCE*, Omaha, NE, May 21-25.
- Nicklow, J.W., Kraft, S.E., Lant, C.L., and Bekele, E.G. (2005). "Virtual watershed: Steps towards cost-effective generation of ecosystem services in rural watersheds." *Proceedings of the XII World Water Congress, IWRA*, New Delhi, November 22-25.
- Lant, C.L., Beaulieu, J., Kraft, S.E., Malanson, G., Nicklow, J.W., and Sengupta, R.S. (2005). "Virtual watershed: Agricultural landscape evolution in an adaptive management framework." *Proceedings of the XII World Water Congress, IWRA*, New Delhi, November 22-25.
- Nicklow, J.W., Chevalier, L.R., Ray, B.T., and Boruszkowski, L.A. (2005). "WIP: A K-12 video for recruitment and education in water resources and environmental engineering." *Frontiers in Education Conference*, Indianapolis, Indiana, October 19-22.
- Bekele, E.G. and Nicklow, J.W. (2005). "Automatic calibration of a semi-distributed hydrologic model using particle swarm optimization." *Am. Geophysical Union Fall Meeting*, San Francisco, CA, December 5-9.
- Bekele, E.G., Nicklow, J.W., Lant, C.L., and Kraft, S.E. (2005). "A decision support system for watershed-scale management of ecosystem services using evolutionary algorithms." *Proceedings of Watersheds 2005, ASCE*, Williamsburg, VA, July 19-22.
- Bekele, E.G. and Nicklow, J.W. (2005). "Hybrid evolutionary search methods for training an artificial neural network." *Proceedings of the 2005 World Water and Environmental Resources Congress, ASCE*, Anchorage, AK, May 15-20.
- Chevalier, L.R., Craddock, J.N., Ray, B.T., and Nicklow, J.W. (2005). "Technology enhanced projects for education in civil and environmental engineering at Southern Illinois University." *Proceedings of iCEER 2005, Exploring Innovation in Education and Research*, Tainan, Taiwan, March 1-5.
- Ray, B.T., Chevalier, L.R., Nicklow, J.W., and Boruszkowski, L.A. (2004). "Website and CD-ROM development: Digital images of water and wastewater processes for engineering education." *Proceedings of the 2004 ASEE Conference*. Salt Lake City, UT, June 20-23.
- Nicklow, J.W., Chevalier, L.R., Ray, B.T., and Boruszkowski, L.A. (2004). "A digital image CD-ROM and website for environmental and water resources engineering curricula and K-12 education." *Proceedings of the 2004 World Water and Environ. Resources Congress, ASCE*. Salt Lake City, UT, June 27-July 1.
- Dessalegne, T. and Nicklow, J.W. (2004). "Optimal operation of multi-reservoir river systems using an artificial life algorithm." *Proceedings of the 2004 World Water and Environmental Resources Congress, ASCE*. Salt Lake City, UT, June 27-July 1.
- Bekele, E.G. and Nicklow, J.W. (2004). "Multi-objective evolutionary algorithms for cost-effective management of ecosystem services in a watershed." *Proceedings of the 2004 World Water and Environmental Resources Congress, ASCE*. Salt Lake City, UT, June 27-July 1.
- Allred, K.O., Nicklow, J.W., Muleta, M.K., and Duram, L.A. (2003). "A multiobjective SDSS for management of urbanizing watersheds: The case of the Lower Kaskaskia Basin, Illinois." *Proceedings of the 2003 World Water and Environmental Resources Congress, ASCE*. Philadelphia, PA, June 23-26.
- Nicklow, J.W., Chevalier, L.R., Ray, B.T., and Boruszkowski, L.A. (2003). "Development of a digital image CD-ROM and website: A new resource for water resources engineering education." *Proceedings of the 2003 World Water and Environmental Resources Congress, ASCE*. Philadelphia, PA, June 23-26.
- Dessalegne, T. and Nicklow, J.W. (2003). "Evolutionary algorithms for optimal control of the Illinois Waterway." *Proceedings of the 2003 World Water and Environmental Resources Congress, ASCE*. Philadelphia, PA, June 23-26.
- Ray, B.T., Chevalier, L.R., Nicklow, J.W., Boruszkowski, L.A., and McCann, C.D. (2003). "Website and CD-ROM development: Digital images of water and wastewater processes for engineering education." *Proceedings of the 2003 ASEE Conference*. Nashville, TN, June 22-25.
- Kraft, S., Lant, C., Beaulieu, J., Duram, L., Ruhl, J.B., Bennett, D., Adams, J., Nicklow, J.W., and Loftus, T. (2002). "Planning in multiple-ownership watersheds: Social, agricultural, and hydrological factors." *Proceedings of the Annual Conf. of the Soil and Water Conservation Soc.* Indianapolis, IN, July 13-17.
- Adams, J., Beaulieu, J., Bennett, D., Duram, L., Kraft, S., Lant, C., Loftus, T., Nicklow, J.W., and Ruhl, J.B. (2002). "Planning in watersheds dominated by private multiple-owners: Integrating socio-economic, political, agricultural, and hydrological factors." *Proceedings of the 9<sup>th</sup> International Symposium on Society and Resource Management*. Bloomington, IN, June 2-5.

- Luster, B.W., Nicklow, J.W., and Frank, R.R. (2002). "Investigation of armoring units for shoreline erosion control." *Proc. of the 2002 Conf. of the Env. and Water Res. Inst., ASCE*. Roanoke, VA, May 19-22.
- Muleta, M.K. and Nicklow, J.W. (2002). "Genetic algorithms for automatic calibration of physically-based distributed watershed models." *Proceedings of the 2002 Conference of the Environmental and Water Resources Institute, ASCE*. Roanoke, VA, May 19-22.
- Muleta, M.K. and Nicklow, J.W. (2002). "Artificial neural networks for efficient decision making in watershed management systems." *Proceedings of the 2002 Conference of the Environmental and Water Resources Institute, ASCE*. Roanoke, VA, May 19-22.
- Nicklow, J.W. and Muleta, M.K. (2002). "Integrative decision making for watershed management using evolutionary algorithms." *Proceedings of the 2002 Conference of the Environmental and Water Resources Institute, ASCE*. Roanoke, VA, May 19-22.
- Parry, T.M. and Nicklow, J.W. (2002). "Reservoir management for flood control using simulated annealing." *Proc. of the 2002 Conference of the Environ. and Water Res. Inst., ASCE*. Roanoke, VA, May 19-22.
- Dessalegne, T. and Nicklow, J.W. (2002). "Evaluation of anthropogenic induced hydrologic alterations of rivers in the development of water level management criteria." *Proceedings of the 2002 Conference of the Environmental and Water Resources Institute, ASCE*. Roanoke, VA, May 19-22.
- Dessalegne, T. and Nicklow, J.W. (2002). "Genetic algorithms for optimal operation of multi-reservoir river systems." *Proceedings of the 2002 Conference of the Environmental and Water Resources Institute, ASCE*. Roanoke, VA, May 19-22.
- Loftus, T., Adams, J., Beaulieu, J., Bennett, D., Duram, L., Kraft, S., Lant, C., Nicklow, J.W., and Ruhl, J.B. (2002). "Understanding the social context for ecological restoration in multiple-ownership watersheds: Preliminary results from the Cache River in Illinois." *Proceedings of the 98<sup>th</sup> Annual Meeting of the Association of American Geographers*. Los Angeles, CA, March.
- Adams, J., Beaulieu, J., Bennett, D., Duram, L., Kraft, S., Lant, C., Loftus, T., Nicklow, J., and Ruhl, J.B. (2001). "Ecological restoration in multiple-ownership watersheds: The case of the Cache River in Illinois – Social and economic issues." *Proc. of the 2001 Governor's Conf. on the Mgmt. of the Illinois River System: The Illinois River - Partnerships for Progress, Restoration, and Preservation*. Eighth Biennial Conf., Peoria, IL, October 2-4. IL Water Resources Center Special Report No. 27. A. Strawn, Editor.
- Loftus, T., Adams, J., Kraft, S., Lant, C., Duram, L., Beaulieu, J., Bennett, D., Nicklow, J.W., and Ruhl, J.B. (2001). "Planning in multiple-ownership watersheds: The case of the Cache River, Illinois." *Proceedings of the Inaugural Conference of the U.S. Society for Ecological Economics: Pathways to Sustainability: Theory and Practice*. Duluth, MN, July 11-13
- Muleta, M.K. and Nicklow, J.W. (2001). "Using genetic algorithms and SWAT to minimize sediment yield from an agriculturally dominated watershed." *Proceedings of the 2001 Conference of the Environmental and Water Resources Institute, ASCE*. Orlando, FL, May 20-24.
- Minder, E. and Nicklow, J.W. (2001). "System-wide optimization of dam operations to control water level fluctuations." *Proceedings of the 2001 Conference of the Environmental and Water Resources Institute, ASCE*. Orlando, FL, May 20-24.
- Nicklow, J.W., and Bringer, J. (2001). "Optimal control of sedimentation in multi-reservoir river systems using genetic algorithms." *Proceedings of the 2001 Conference of the Environmental and Water Resources Institute, ASCE*. Orlando, FL, May 20-24.
- Nicklow, J.W. and Hellman, A.P. (2000). "Optimizing hydraulic design of highway drainage systems." *Proceedings of the 2000 Joint Conference on Water Resources Engineering and Water Resources Planning and Management, ASCE*. Minneapolis, MN, July 30-August 2.
- Nicklow, J.W. and DeVantier, B.A. (2000). "Teaching engineering courses in an off-campus environment." *Proceedings of the 2000 ASEE Conference*. St. Louis, MO, June 18-21.
- Nicklow, J.W. (2000). "Technical writing in an undergraduate design course." *Proceedings of the 2000 ASEE Conference*. St. Louis, MO, June 18-21.
- Nicklow, J.W. and Mays, L.W. (1999). "Operation of multiple reservoir systems to control sedimentation in rivers and reservoirs." *Proceedings of the 26th Annual Conference of the Water Resources Planning and Management Division, ASCE*. Tempe, AZ, June 6-9.
- Nicklow, J.W. and Mays, L.W. (1999). "Operation of multi-reservoir systems to minimize sedimentation in rivers-reservoir networks." *Proceedings of the 1999 International Water Resources Engineering Conference, ASCE*. Seattle, WA, August 8-11.
- Nicklow, J.W. and Mays, L.W. (1999). "Multi-reservoir system management for sedimentation control." *Proceedings of the 28<sup>th</sup> Congress of the International Association for Hydraulic Research, IAHR*. Graz, Austria, August 22-27.

## GRANTS RECEIVED:

- Lant, C., Nicklow, J., Schoof, J., Secchi, S., and Misgna, G. (2009). "Climate change, hydrology, and landscapes of America's heartland: a multi-scale natural-human system." National Science Foundation. Funds Requested: \$1,400,000. Period Covered: 8/16/10 – 8/15/14.
- Collins, K., Collins, S., Nicklow, J., and Walker, C. (2010). "Graduate technology enhancement: Video conference upgrade strategy." SIUC. Funds Requested: \$11,028. Period Covered: 1/1/10 – 6/31/10.
- DeRuntz, B., Nicklow, J., and Kowalchuk, R. (2009). "Leadership development program in engineering and technology." National Science Foundation. Funds Requested: \$597,591. Period Covered: 7/10-6/14.
- Baker-Rain, L., Nicklow, J., Owens, T., and Baughman, M. (2009). "Summer transportation institute: Connecting today's students to tomorrow's transportation opportunities." Illinois Department of Transportation. Funds Received: \$106,413. Period Covered: 7/15/09 – 12/31/09.
- Nicklow, J.W., Gupta, L., Mathias, J., Tezcan, J., Pericak-Spector, K., and Kowalchuk, R. (2006). "Engineering and technology talent expansion program at Southern Illinois University Carbondale." National Science Foundation. Funds Received: \$1,485,092. Period Covered: 9/06-8/11.
- Nicklow, J.W. (2006). "Evaluating alternatives for watershed-scale design of BMPs." U.S. Geological Survey and National Institutes of Water Resources. Funds Requested: \$90,948. Period Covered: 8/06-8/08.
- Lant, C., Nicklow, J., Kraft, S., Beaulieu, J. (2004). "Virtual watershed: Agricultural landscape evolution in an adaptive management framework." National Science Foundation. Funds Received: \$450,000. Period Covered: 7/04-6/07.
- Nicklow, J.W. and Marikunte, S.S. (2004). "Administering and documenting a training seminar series for graduate teaching assistants." SIUC Center for Graduate Teaching Excellence. Funds Received: \$8,802. Period Covered: 7/04-6/05.
- Nicklow, J.W. (2002). "Undergraduate research assistantship." SIUC. Funds Received: \$7,200. Period Covered: 8/02-5/03.
- Chevalier, L.R., Ray, B.T., Nicklow, J.W. and Boruszkowski, L. (2002). "Digital images of environmental and water resources engineering principles and practice." National Science Foundation – Division for Undergraduate Education. Funds Received: \$140,000. Period Covered: 1/02-2/06.
- Nicklow, J.W., Ray, B.T. and Boruszkowski, L. (2001). "Preliminary development of a digital image database for environmental and water resources engineering." SIUC Undergraduate Teaching Fellowship Program. Funds Received: \$13,241. Period Covered: 7/02-8/03.
- Nicklow, J.W. (2001). "A management model for controlling hydrologic alteration in the Illinois River." The Nature Conservancy – Freshwater Initiative. Funds Received: \$15,000. Period Covered: 1/02-6/03.
- Beaulieu J., Nicklow, J.W., Kraft, S., and Lant C. (2001). "Decision support for water quality planning in multiple-ownership watersheds: The case of the Cache River and applications in other Illinois watersheds – Continuation Grant" Illinois CFAR: Water Quality Strategic Research Initiative. Funds Received: \$175,000. Period Covered: 7/01-6/04.
- Nicklow, J.W. and Duram, L.A. (2001). "Multi-objective decision support tools for protection of streams in urbanizing watersheds." Illinois Water Resources Center. Funds Received: \$40,000. Period Covered: 3/01-2/03.
- Nicklow, J.W. (2000). "Hydrologic alteration and its relation to water level management: A systems approach to managing the Illinois River." The Nature Conservancy – Freshwater Initiative. Funds Received: \$19,000. Period Covered: 1/01-12/01.
- Nicklow, J.W. and R.R. Frank (2000). "MTC - Straw-reinforced concrete armoring units for shoreline protection at Crab Orchard Lake." SIUC Materials Technology Center. Funds Received: \$19,215. Period Covered: 7/00-6/01.
- Beaulieu J., Kraft, S., Lant C., Bennett, D., and Nicklow, J.W. (1999). "Decision support for water quality planning in multiple-ownership watersheds: The case of the Cache River and applications in other Illinois watersheds." Illinois C-FAR: Water Quality Strategic Research Initiative. Funds Received: \$138,322. Period Covered: 7/99-6/01.
- Nicklow, J.W. (1999). "Minimizing water level fluctuations in the Illinois River." The Nature Conservancy. Funds Received: \$15,000. Period Covered: 8/99-8/00.
- Nicklow, J.W. (1999). "Genetic algorithms for the control of sedimentation in river-reservoir networks." Illinois Water Resources Center. Funds Received: \$30,804. Period Covered: 6/99-5/01.
- Nicklow, J.W. (1998). "Operational model for multiple-reservoir river systems during flooding." SIUC ORDA Special Research Program. Funds Received: \$23,686. Period Covered: 8/99-6/01.