Michael E. Battig
Professor & Chair
Department of Computer Science
Saint Michael's College
One Winooski Park
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Education

Ph.D. in Computer Science, Mississippi State University, August 1998
Dissertation Title: "An Empirical Justification and Methodology for Reusable Built-In Test Features in Object-Oriented Software."
M.S. in Computer Science, University of North Texas, December 1991
B.S. in Systems Analysis, Miami University, Oxford, Ohio, May 1984

Academic & Administrative Service to Saint Michael's College

Chair of Computer Science (2006-present)
Curriculum Review Committee (Summer 2010-2011)
Interim VGN Coordinator for Saint Michael's College (Summer 2006)
Spearheaded Initiative to Create a New Information Systems Program (2000-2002), Current Program Coordinator
Enrollment Management Committee (2009-2010)
Chair of the Educational Technology Committee (2002-2004)
Faculty Welfare Committee (2005-2008, Co-Chair 2007-2008)
Technology Steering Committee (2003-2006)
Pension Committee (2001-2003, Retirement Planning Task Force - Summer 2006)
Faculty Visitor Program (Ryan Hall 2003, 2010)

Additional Academic & Administrative Service

Elected to National Board of Directors, AITP EDSIG - Association of Information Technology Professionals Education Special Interest Group, Editorial and Review Board for EDSIG Journals (2010-2012)
Interim Chair of Information Technology & Computer Science, American University of Afghanistan (2007-2009)
vtSDA (Vermont Software Developer's Alliance) Outreach Committee (2007-present)
SUNY Plattsburgh external reviewer & report author for five year self-study for the Department of Computer Science. Report completed April 27, 2006.
Miami University Academic Advisory Committee to the Computer Science Department, Chair (2004).
Lead Author of Vermont Dept. of Education Computer Science Endorsement for Secondary Teachers (2000-2003)
Program Director & Associate Professor of Computer Science & Computer Information Systems, Norwich University (1998-2000)
Revised the Computer Science & Computer Information Systems Curricula at Norwich University (1998-1999)
Revised the Computer Science & Information Systems Curricula at Belhaven College (1996-1998)
Assistant Professor (1992-97), Associate Professor (1998) & Chair (1996-98) of Computer Science Department at Belhaven College

Faculty Elected Representative to the Belhaven College Board of Trustees (1994 - 1996)

Research Areas

Software Engineering
Computer Science Education

Peer-Reviewed Scholarship & Publications

To Appear: "Plan to throw one away: Lessons Learned Developing an Economic Simulator," The Proceedings of CONISAR 2011, (Wilmington – November 2011), co-authored with Michael Commo.

"A Validation Study of Student Differentiation Between Computing Disciplines," Information Systems Education Journal, October 2011, Vol 9 No 5: ISSN: 1545-679X. (http://isedj.org/2011-9/N5/ISEDJv9n5p105.html, co-authored with Muhammed Shariq).

"Building Undergraduate IT Programs in Developing Countries," The Proceedings of ISECON 2009, v 26 (Washington DC): ISSN: 1542-7382. (http://proc.isecon.org/2009/3135/index.html).

"Piltdown Man or Inconvenient Truth? A Two-year Study of Student Perceptions about Computing," Information Systems Education Journal, June 2010, v.8, no.33, ISSN: 1545-679X. (http://isedj.org/8/33/).

"Examining the Impact of a New Information Systems Program and NSF STEM Funding on Computing Enrollments," Information Systems Education Journal, June 2009, v.7, no.67, ISSN: 1545-679X. (http://isedj.org/7/67/index.html).

"Team project on requirements elicitation and user interface prototyping" module created for SWENET, The Network Community for Software Engineering Education, July 2005, with support from the NSF (http://www.swenet.org/viewModule.aspx?moduleID=159, co-authored with Prof. Charles Wallace)

"Pilot Studies Introducing Collaborative and Distance Learning Paradigms in a Residential Environment," Information Systems Education Journal, August 2005, v.3, no.13, ISSN: 1545-679X. (http://isedj.org/3/13/index.html, co-authored with Dr. Greta Pangborn).

"Observations from a Multi-Platform Approach to User Interface Design Pedagogy." Proceedings of the 19th Annual Eastern College Computing Sciences Conference. October 2003. Also in The Journal of the Consortium for Computing Sciences in Colleges.

"Utilizing the PDA as a Vehicle for User Interface Design Pedagogy." Proceedings of ED-MEDIA 2002 World Conference on Educational Multimedia, Hypermedia & Telecommunications. June 2002

"Migrating a Traditional Network and Data Communication Laboratory Course to an Information Systems-Friendly Environment." Proceedings of the Information Systems Education Conference 2000. November 2000.

"Heuristics for Reusable Built-In Test Features in Object-Oriented Programs." Proceedings of the 1st International Conference on Information Reuse and Integration. November 1999.

"Scaling a Data Communications Laboratory Course to fit the Small College Computing Curriculum." The Journal of Computing in Small Colleges, Vol. 13, No.4. April 1998.

"Built-In Test Features for Testing Object-Oriented Programs." Proceedings of the ISCA International Conference on Computer Applications in Industry and Engineering. December 1997.

"Pedagogy vs. Practice: Observations Regarding CS1 Programming Language Usage." Proceedings of the 34th Annual ACM Southeast Conference. April 1996.

Grants

Vermont Dept. of Labor – The New Technology Triumvirate: Bringing Education, Industry, and Government Together to Prepare the Next Generation of Technology Workers, Co-PI 2008-2009, $33,500
NSF – S-STEM (Scholarships in Science, Technology, Engineering, and Mathematics), Co-PI 2008-2012), $578,500
NSF – CSEMS (Computer Science Engineering and Mathematics Scholarships), PI 2001-2007, $200,000
Saint Michael's College Educational Technology Grant: "Investigating the Effectiveness of the Collaborative Learning Lab," Spring/Summer 2003, $2,250
Saint Michael's College Faculty Development Grant: "Integrating the PSP into the CS Curriculum at SMC," 2001, $2,200
Saint Michael's College Student Summer Research Project (Faculty Mentor for Andrew Bays), Summer 2002

Lectures, Workshops & Presentations

"Computer Science Education and Asperger's Syndrome," CCSC Northeast Conference, Holy Cross, April 21, 2006.
SEI Software Architecture Educators' Workshop at Carnegie-Mellon University, August 18-20, 2004. Participants shared "best practices" for incorporating Software Architecture concepts in their respective computing curricula
"Software Architecture: An overview of the Software Engineering Institute's Approach," Miami University, 3rd Annual CSA Conference, October 8, 2004.
"Project Management: A Primer," Miami University, 2nd Annual CSA Conference, October 3, 2003
"The Project Proposal," Vermont Chapter of the Project Management Institute, April 17, 2003
"Software Engineering Lessons from Palm OS Development," Miami University, 1st Annual CSA Conference, October 11, 2002
"The ABCs of Designing an Articulation Agreement for you Corporate-College Partnership," Dallas, TX, October 18, 1999. Sponsored by Corporate University Xchange.
"Heuristics to Implement Built-In Test (BIT) Features within Object-Oriented Programs," University of Vermont, April 15, 1999. Sponsored by Computer Science Department.

Professional Affiliations

Member of the ACM
Member of the AITP
Member of the vtSDA
Member of the ISCA
Upsilon Pi Epsilon (National Computing Honor Society, Inducted 1991)

Courses Taught at Saint Michael's College

CS101 – Introduction to Computing
CS111 – Introduction to Computer Science I
CS113 – Introduction to Computer Science II
CS211 – Data Structures and Analysis of Algorithms
CS303 – Programming Languages
CS305 – Data Base Management Systems
CS407 – Software Engineering
CS415 – Artificial Intelligence
CS411 – Special Topics in Computer Science (Advanced Software Engineering)
FS161 – Ethics and Technology in Society
GSA541 – Management Information Systems

Additional Courses Taught (1992-1999)

Database Design & Implementation (Norwich University)
Data Communications & Networks (Norwich University & Belhaven College)
Ethics in Computing (Norwich University)
Current Research Topics (Belhaven College)
Computers in Education (Belhaven College)
Management Information Systems (Belhaven College)
Visual Basic Programming (Norwich University & Belhaven College)
Pascal & COBOL Programming (Belhaven College)

Professional Experience

Software Engineering Consultant, Wyeth-Ayerst Research, Chazy, NY (Summer 2001)
Software Engineering Consultant, IBM, Essex Junction, VT (Summer 2001)
Software Engineering Consultant, Green Mountain Software, Colchester, VT (Summer 2000)
Software Education Consultant, IDX Systems Corp., Burlington, VT (Summer 1999)
C++/OOP Training Consultant, Trustmark Bank, Jackson, MS (Summer 1997)
Senior Systems Analyst, J.C.Penney Co., Dallas, TX (1989 – 1992)
Systems Analyst, J.C.Penney Insurance Co., Columbus, OH (1984 – 1989)

Personal

Married: April 27, 1985, to Heather Ann Babcock
Children: Bethany (7/11/88), Susanna (6/20/90), Kelsa (10/9/93), Caleb (6/25/96), Julianna (2/24/99)
Interests: Basketball, Bicycling, Camping, Dual-sport Motorcycling, Reading (political, theological, and educational literature)