

# CONTRIBUTORS

**Jay Bhatt** is the liaison librarian for the College of Engineering at Drexel University. He is responsible for building library collections in engineering subject areas, outreach to faculty and students, and teaching information and research skills to faculty and students in engineering, biomedical engineering, and related subject areas. He provides individual and small group consultations to students, instructional sessions to specific classes, online research support in both face-to-face and distance learning programs, and workshops for specialized research areas. Mr. Bhatt has published and presented papers extensively in the area of information literacy for engineering students.

**Dr. Patrice Buzzanell** is a professor of communication in the Brian Lamb School of Communication (and a professor of engineering education by courtesy) at Purdue University. Dr. Buzzanell is the author of 3 edited books and over 130 articles and chapters. Her research centers on the everyday negotiations

and structures that produce and are produced by the intersections of career, gender, and communication, particularly in STEM (science, technology, engineering, and math).

**Dr. Monica Cardella** is an associate professor of engineering education and is the director of informal learning environments research for the Institute for P-12 Engineering Research and Learning (INSPIRE) at Purdue University. She received her MS and PhD degrees in industrial engineering at the University of Washington and her BS degree in mathematics from the University of Puget Sound. Dr. Cardella teaches and has served as a course coordinator in the first-year engineering program at Purdue, where she has tried out many of the approaches described in this book. Her current research focuses on the development of engineering thinking (primarily focused on design thinking and mathematical thinking) across the life span (i.e., from age four years through professional practice) in both formal and informal environments.

**Jim Clarke** earned a BA in history and communications from Hiram College, an MA in American history from the University of Houston, and an MLS from the University of Michigan. Mr. Clarke has worked as an engineering librarian and as a product information manager for companies such as Ford Motor Company and International Truck and Engine Corporation, and within divisions of the DaimlerChrysler Truck Group. He currently is the engineering librarian for Miami University.

**Donna Ferullo** is the director of the University Copyright Office and associate professor of library science at Purdue University. She advises the university on copyright compliance issues and educates the Purdue University community on their rights and responsibilities under the copyright law. Ms. Ferullo holds a JD degree from Suffolk University Law School, an MLS degree from the University of Maryland, and a BA degree in Communications from Boston College. Ms. Ferullo has published articles on copyright and its impact on higher education and libraries, is past chair of the Association of College and Research Libraries' Copyright Committee, and serves on the copyright committee of the Indiana Partnership for Statewide Education (IPSE).

**Michael Fosmire** is the head of the physical sciences, engineering, and technology divisions and professor of library science of the Purdue University Libraries. He has written extensively on the role of information in active-learning pedagogies and the integration of information literacy in science and technology curricula and is the author of the *Sudden Selector's Guide to Physics*. He has also edited the physics section of the American Library Association's *Guide to Reference and Resources for College Libraries*.

**Jeremy Garritano** is an associate professor of library science and has been the chemical information specialist for the Purdue University Libraries since 2004, where he is the Libraries liaison to the areas of chemistry, chemical engineering, and materials engineering. Mr. Garritano holds a BS degree in chemical engineering from Purdue University and an MLS degree from Indiana University. His research interests include chemical information literacy and liaison librarian experiences with data management. Previously he has worked at George Mason University and Earlham College.

**Jon Jeffryes** is an engineering librarian at the University of Minnesota where he is subject liaison to the Departments of Biomedical, Civil, Industrial, and Mechanical Engineering and manages the Libraries Standards Collection. Mr. Jeffryes holds an MA-LIS degree from the University of Wisconsin-Madison and a BA degree in English from Grinnell College. His research interests are focused on the information needs of engineers and information literacy and teaching.

**Michael Magee** is a '14 year student at Drexel University studying architectural engineering with a mechanical concentration and a special emphasis in sustainable HVAC applications. He has been vice president for Drexel Smart House since spring 2010, and since 2009 he has been researching with the DSH Lightweight Green Roof team, which received the EPA P3 phase II award in 2011. Mr. Magee has been involved in several LEED projects during his past co-op positions, has completed a Passive House Planning Package (PHPP) energy model for a Habitat for Humanity feasibility study, and has assisted with the development of building energy and ventilation models associated with NIST's Net-Zero Energy Residential

Test Facility (NZERTF) in Gaithersburg, Maryland. He is dedicated and maintains a passion for the innovation and creativity required to push the new paradigm of responsible building practice in order to improve the quality of the built environment for our future.

**Dr. Joseph Mullin** is the Teaching Professor in the Civil, Architectural, and Environmental Engineering Department at Drexel University. Dr. Mullin received both his BS and MS degrees in civil engineering from Drexel University and his PhD degree from The Pennsylvania State University. His early research areas included biaxial fatigue studies on high performance aluminum alloys for aircraft. Later, at General Electric Space Sciences Lab, he was involved in developing composite materials for aerospace applications including heat shields for reentry systems and carbon epoxy structural members for spacecraft. He has also been teaching materials and structural courses at both the graduate and undergraduate level for many years with emphasis on failure mechanisms. His responsibilities include advising civil engineering senior design groups on structures, materials selection, and design optimization.

**Megan Sapp Nelson** is an associate professor of library science at Purdue University. Ms. Sapp Nelson holds MLS and BA degrees from the University of Illinois, Urbana-Champaign. She currently serves as liaison to the Schools of Civil Engineering, Construction and Engineering Management, Electrical and Computer Engineering, and Environmental and Ecological Engineering, as well as the Departments of Earth, Atmospheric, and Planetary Sciences and Electrical and Computer Engineering Technology. Her teaching and research focuses on information literacy-related professional skills needed by STEM students, including

data information literacy, data management, and embedding information literacy into the engineering design cycle.

**Dr. Bonnie Osif** is an engineering reference and instruction librarian in the Engineering Library at The Pennsylvania State University. She holds a BS degree in biology from Penn State, an MS degree in information science from Drexel, and an EdD degree in science education from Temple University. She is active in the Special Libraries Association and the Transportation Research Board. She is the co-author of *TMI: 25 Years Later* and editor of *Using the Engineering Literature*. Dr. Osif has authored more than 100 papers and presentations.

**Dr. Senay Purzer** is an assistant professor in the School of Engineering Education and is the co-director of assessment research for the Institute for P-12 Engineering Research and Learning (INSPIRE) at Purdue University. Dr. Purzer received her MA and PhD degrees in science education at Arizona State University. She also holds a BS degree in physics education and a BSE degree in engineering. She has written journal publications on teaming and design, conceptual learning, and instrument development. Her current research focuses on design problem solving, assessment of lifelong learning, and K-12 engineering education.

**Dr. David Radcliffe** is the Kamyar Haghighi head of the School of Engineering Education and the epistemology professor of engineering education at Purdue University. He holds BEng and MEngSci degrees in mechanical engineering from the University of Queensland and a PhD in biomedical engineering from Strathclyde University. His teaching and research interests span engineering design, systems

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**Amy Van Epps** is an associate professor of library science and engineering librarian at Purdue University. Ms. Van Epps received an MSLS degree from the Catholic University of America, an MEng (IE) degree from Rensselaer Polytechnic Institute, and a BA degree in engineering science from Lafayette College. She has extensive experience providing instruction for engineering and technology students, including those in Purdue's first-year engineering program. Her research interests include finding effective methods for integrating information literacy knowledge into the undergraduate engineering curriculum.

**Ruth Wertz** is a doctoral candidate in the School of Engineering Education at Purdue University. She holds an MS degree in civil

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**Dr. Carla Zoltowski** is co-director of the EPICS Program at Purdue University. She holds BSEE, MSEE, and PhD degrees in engineering education, all from Purdue, and is responsible for teaching design and developing curriculum and assessment tools for the EPICS Program. Dr. Zoltowski's academic and research interests include human-centered design, ethical reasoning, leadership, service learning, and assistive technology. She oversees the research efforts within EPICS.