

Contributors

Allen, Jerry: Peer Teacher Leader and Program Leader

Technology education teacher at Grayslake High School, Grayslake, Illinois, since 1993. He was the Peer Teacher Leader and Program Leader, beginning as a teacher participant in the PHYS-MA-TECH initiative, 1989-1992. His leadership and knowledge of mathematics, sciences, and technology, and proficiency in English and communications made him invaluable.

Balamuralikrishna, Radha: Faculty Program Leader

Associate professor in the College of Engineering and Engineering Technology at Northern Illinois University. His teaching and research interests involve engineering graphic design, CAD and downstream applications, and engineering technology and industrial technology education. He is also an ASQ Certified Quality Engineer and an SME Certified Manufacturing Technologist.

Baker, Gary M.: Faculty Program Leader

Associate professor in the Biochemistry Division of the Chemistry and Biochemistry Department at Northern Illinois University. His research interests involve the development of new technology applications in education, including collaboration technologies in curricula at both the high school and undergraduate levels, and ligand binding to cytochrome c oxidases.

Blecksmith, Richard: Faculty Program Leader

Professor in the Mathematical Sciences Department at Northern Illinois University. His research interests involve computational number theory using computers to investigate combined and numerical theoretical problems. He is also interested in infinite product identities, particularly Jacobi triple product functions.

Bueschel, Ellen V.: RPS Administrator

Interim superintendent of the Rockford School District while on leave as associate professor of educational leadership at Miami University. She is completing her 30th year as a school administrator, including 24 years as a superintendent or assistant superintendent.

Day, Michael: Faculty Program Leader

Associate professor of English at Northern Illinois University, where he directs the first-year composition program and teaches composition pedagogy, technical writing, and writing for electronic media. Day is a chair of the Conference on College Composition and Communication Committee on Computers in Composition and Communication and former chair of the National Council of Teachers of English Assembly on Computers in English. He has presented and published widely on topics ranging from intercultural rhetoric to Internet communication and teaching.

Ervin, C. Patrick: Faculty Program Leader

Professor emeritus with the Geology Department at Northern Illinois University. His research interests include geophysics and the development of earth science and geology as the core of teacher certification programs for middle and secondary schools.

Greene, Richard P.: Faculty Program Leader

Associate professor in the Geography Department at Northern Illinois University. His research interest includes the investigation of metropolitan regions with respect to land-use change, comparative economic advantage, population growth, and income distribution.

Hanzely, Laszlo: Faculty Program Leader

Distinguished Teaching Professor and professor emeritus in the Biological Sciences Department of Northern Illinois University. His research is centered on the role of the cytoskeleton (microfilaments and microtubules) in determining cell shape in a variety of animal and plant cells. Research has also included ultrastructural studies on the development of microbodies and protein bodies in plant cells.

Kevill, Dennis N.: Faculty Program Leader

Distinguished Research Professor in the Chemistry and Biochemistry Department of Northern Illinois University. Areas of research interest include organic reaction mechanism, stereochemistry, electrophilic assistance to nucleophilic substitution reactions, and solvent nucleophilicity.

Kolar, Joseph: External Evaluator

Retired secondary career education teacher and administrator in the Chicago Public Schools. He had led program and grant evaluations statewide.

Lockard, James: Faculty Program Leader

Distinguished Teaching Professor and technology coordinator in the College of Education at Northern Illinois University. His research interests include the use of technology in educational settings.

McCombs, Paul: Faculty Program Leader

Faculty member at Rock Valley College. He has been teaching mathematics at the community college level for seven years.

Messley, Karen: Faculty Program Leader

Director of Sciences and Chair of Life Science at Rock Valley College. She is completing a doctorate in adult education at Northern Illinois University. She is the author of *Microbiology Laboratory Manual: Principles and Applications*, published by Prentice Hall, and a reviewer and contributor to many general biology and microbiology texts.

Parker, Jenny: Faculty Program Leader

Recipient of NIU Undergraduate Teaching Award. Associate professor in the College of Education at Northern Illinois University. Her research interests include teaching and learning pedagogy.

Peters, Bradley: Faculty Program Leader

Associate professor and coordinator of writing across the curriculum at Northern Illinois University. He designed the facility for the NIU Writing Center. He has published on writing program administration, writing pedagogy, and medieval rhetoric.

Rosentrater, Kurt: Faculty Program Leader

Assistant professor of engineering technology at Northern Illinois University. He teaches in the areas of research methods and data analysis, manufacturing, engineering mechanics, engineering design, and technology's relationship to society. He is a former process development engineer in the food and grain industry, and is active in several professional societies, including ASAE, ASEE, and ASQ.

Rusin, David: Faculty Program Leader

Associate professor in the Mathematical Sciences Department at Northern Illinois University. He is a finite group theorist by training but considered a topologist on the basis of his work. His research interests lie in the cohomology of groups, a process of calculating rings and other algebraic invariants associated with groups.

Scarborough, Jule Dee: Principal Investigator and Director

Distinguished Teaching Professor and Professor in the Department of Technology, College of Engineering and Engineering Technology, Northern Illinois University, and W. K. Kellogg Leadership Fellow. Her teaching areas include leadership, strategic management, international business, project management, automated manufacturing, and senior design capstone. She leads graduate certificate programs in strategic and project management. Her research focuses on industrial leadership and the teaching and learning of MSTE at the secondary level.

Shaw, Kerri: Faculty Program Leader

Faculty member at Rock Valley College. She is completing a doctorate from the University of Tulsa and teaches English composition. She helped organize literary conferences and has been an expert reader for the journal *Tulsa Studies in Women's Literature*.

Stoddard, Paul R.: Faculty Program Leader

Chair of the General Education Committee (GEC) at Northern Illinois University and associate professor of Geology. He has taught space and planetary science and geology. Research interests include planetary geology and geodynamics. He is developing an interactive website about solar orbital relationships.

Tollerud, Toni R.: Faculty Program Leader

Professor in the Department of Counseling, Adult and Higher Education at Northern Illinois University. She has coordinated the program and served as director of the Internship and School Counseling Program. Since 1999, she has directed the Illinois School Counselors' Academy, which promotes a systematic, professional development model for school counselors across the state.

White, Conard: Research Associate

Professor emeritus from Northern Illinois University. He was the project research associate in each initiative and a partner in the design and execution of all research, collection and analysis of all data, and interpretation of results.

Windelborn, Augden: Faculty Program Leader

Assistant professor in physics at Northern Illinois University. He has conducted numerous workshops and courses related to the improvement of instruction. Windelborn has been a consultant to a number of regional offices of education and school districts as well as to informal science centers in northern Illinois. As the person responsible for the teacher certification program, his activities fall into three main areas: designing more effective strategies for training science teachers, developing technology and tools for use in science teaching and research, and addressing the needs of all those learning science, K-16.