

# 2011 Leaders to Watch

Those who have contributed to the technology and engineering education field for many years are known for their teaching, written work, presentations, research, and recognition received from professional groups. The selected individuals who are highlighted here have shown outstanding leadership ability as educators early in their careers.

This list is by no means inclusive. There are many other professionals in the field with similarly impressive qualifications.

Individuals who want to recognize other technology and engineering educators with outstanding qualifications should forward their vitae and a sponsoring letter to ITEEA for consideration.

The leaders of our field are our future; we should promote and encourage them to realize their potential.



**Henry L. (Hal) Harrison, III**  
**Visiting Assistant Professor**  
**Department of Teacher Education**  
**Clemson University**  
**Clemson, SC**

Henry L. (Hal) Harrison III is a visiting assistant professor in the Department of Teacher Education at Clemson

University. Hal's current responsibilities include teaching a variety of technical courses within the technology education major and updating the undergraduate technology education program to align with the International Technology and Engineering Educators Association's (ITEEA) *Standards for Technological Literacy*. Hal holds an undergraduate degree from Clemson University and a Master's degree from North Carolina State University. He received his Ph.D. from Old Dominion University with a major in Occupational and Technical Studies in 2009.

Hal's professional experience includes serving on the Editorial Review Board for ITEEA's *Technology and Engineering Teacher* journal, Chairman of the Board of Directors for the South Carolina Technology Student Association (SCTSA), Secretary/Treasurer for the Southeastern Technology Education Conference (STEC), and member of the Technology Student Association's (TSA) Competitive Regulations Committee (CRC) among many other duties. His research agenda focuses on technological literacy, integrative STEM education, television production and its incorporation into the STEM classroom, pre-engineering education and its relation to STEM education, and children's engineering concepts. Hal has over 15 publications and 20 regional and national presentations.

Recently, Hal has served on the writing team for a National Science Foundation Noyce Scholarship that was written through a joint effort between Clemson University's

Eugene T. Moore School of Education and the newly formed Department of Engineering and Science Education. In March 2010, Hal received ITEEA's "Top Rated Peer-Reviewed Article Written by College Faculty" Award for an article he and Dr. Thomas Loveland published in *Technology and Engineering Teacher* and was also recently trained as an *Engineering byDesign*™ (EbD™) *Technological Systems* course specialist.



**Laura Johnson Hummell**  
**Assistant Professor**  
**Applied Engineering and Technology**  
**Department**  
**California University of Pennsylvania**  
**California, PA**

Laura Johnson Hummell has taught a multitude of subjects and grade levels over the last twenty years. She teaches at California University of Pennsylvania as an assistant professor in the applied engineering and technology department and enjoys being co-advisor for the Technology Education Association of California (TEAC) club. Her main duties include supervising technology education student teachers and teaching technology education assessment, instructional methods, and digital communications.

Her research interests include:

- Incorporating art and design in engineering and technology education.
- Incorporating service learning projects' effects on technology education recruitment and retention.
- Designing and implementing effective online education instructional strategies.
- Making science, technology, engineering, and mathematics (STEM) courses and careers accessible to all students.

- Integrating students with special needs in laboratory-based courses.
- Using animation, animatronics, applied robotics, nanotechnology, and/or career and technical student organizations (CTSO) to increase kindergarten through twelfth grade students' participation in STEM courses and careers.

Laura earned a Bachelor of Science in Education with a major in secondary English from The Pennsylvania State University, a Master of Science in Education from Old Dominion University with a concentration in occupational and technical studies, and a doctorate in educational leadership with a concentration in instructional design from East Carolina University. At ECU, Laura's dissertation focused on how leaders staff and implement successful online distance education programs across the United States.

While pursuing her doctoral studies, Laura was a technology education teacher and Technology Student Association (TSA) advisor in Manteo, Dare County, NC. Her honors include the Dare County Teacher of the Year, North Carolina TSA Advisor of the Year, First Flight Centennial Teacher of the Year, and ITEEA Teacher Excellence awards. She is a member of Epsilon Pi Tau, ITEEA, TEEAP, TEAC/TECA, and TSA.



### **Todd R. Kelley**

**Assistant Professor and P-12 sTEM Researcher  
Engineering/Technology Teacher Education Program  
Purdue University  
West Lafayette, IN**

Todd Kelley is an assistant professor of Engineering/Technology Teacher Education. In April of 2008, Todd was hired through a unique P-12 sTEM education initiative at Purdue with a specific emphasis on the "T" and "E" in STEM.

Todd received his B.S. in technology education from S.U.N.Y Oswego, an M.A. from Ball State University, and Ph.D. from the University of Georgia. Dr. Kelley was a National Fellow with the Center for Engineering and Technology Education. He taught middle and high school technology education for nine years in both New York and Indiana. As a middle school teacher in Bloomington, IN, Todd received a Lilly Creativity Fellowship and a Fulbright Memorial Scholarship to travel to England and Japan.

Todd also received a Monroe County Educator of the Year award in 2001. August of 2004 provided an opportunity for Todd to teach at the college level at Ball State University in Muncie, IN for the 2004-2005 school year before pursuing his Ph.D. at UGA under the advisement of Robert Wicklein, DTE.

Todd has conducted several funded research projects that have investigated how design-based instruction has impacted student learning. The research results have been published in the *Journal of Technology Education*, *The Journal of Industrial Teacher Education*, and *The Journal of sTEM Teacher Education*. Other notable publications include co-authoring a chapter in the 2010 CTTE yearbook, as well as several articles in *Technology and Engineering Teacher*, the *Journal of Technology Studies*, and *Children's Technology and Engineering*.

Todd has assisted in revising the Ph.D. program in the College of Technology at Purdue. The new Ph.D. focuses on preparing future technologists for leadership in a global economy and teacher educators with an emphasis on STEM education. It will advance technology research and sharpen the technology definition while maintaining the integrity and vitality of the discipline. Its goals are to prepare future stewards and leaders of technology as a discipline who understand the advancing role and importance of technology in society. Todd has helped Purdue's teacher education program revise courses to specifically focus on STEM. Todd developed and taught the first new graduate course: *Building the Philosophy of Technology*, a rewarding experience for Todd to help prepare future scholars, educators, and technologists. Todd believes strongly in promoting scholarship and leadership within the field of technology education, and these opportunities at Purdue help him reach these goals.

Todd is a native of New York. He lives in West Lafayette, IN with his wife, Diane, and four children, Mark, Kate, Alyssa, and Ashley.

Todd has received the following honors:

- Silvius-Wolansky Outstanding Young Industrial Teacher Educator, November 2009.
- Silvius-Wolansky Outstanding Scholarly Publication, March 2009.
- Research Excellence Award, 2008 eTED Research Symposium.
- International Technology Education Association's Maley Scholarship, Spring 2008.
- Three-time recipient of Philip Gray Memorial Scholarship, University of Georgia.



### **Andrew M. Klenke**

**Associate Professor  
Department of Technology and  
Workforce Learning  
Pittsburg State University  
Pittsburg, KS**

Andy Klenke is an associate professor of Technology Education at Pittsburg State University where he prepares students to become technology education teachers at the middle and high school level. He received his Associate's degree from Brookdale Community College in New Jersey while serving in the United States Army. After seven years of military service, he moved to Pittsburg, KS and pursued a Bachelor's degree in Technology Education at PSU. After graduating, he taught high school technology education for five years in Chanute, KS while pursuing his Master's degree in Technology Education. Six of his former high school students have gone on to become technology education teachers.

In 1998, Mr. Klenke began teaching the undergraduate and graduate courses at Pittsburg State University, where he has taught all courses in the technology education program, as well as developed courses in STEM and Automated Manufacturing. He actively serves on numerous departmental, university, and community committees promoting technology education at every level. He has served as a past officer in the Kansas Technology Education Association and has been the PSU TECA advisor and TECA Southwest Region Coordinator for 12 years.

Mr. Klenke is a Council on Technology Teacher Education Twenty-First Century Leader Associate and has been recognized by International TECA as a Distinguished Faculty Advisor. He has recently served as the International TECA Advisor, providing change to the TECA organization at the national level. He currently serves on the ITEEA Board of Directors as the TECA Director. Andy is ABD and working towards a Doctorate at the University of Arkansas, Fayetteville.

Upon completion of the Doctorate, his plans are to focus on the Kansas Technology Education Association by increasing membership at the state level and engaging teachers to become more involved at both the state and national levels. He plans to continue working with the state department of education to ensure that technology and engineering education remains a vital part of the educational system in Kansas.



### **Johnny J Moyer**

**Supervisor, Career and Technical  
Education  
Chesapeake Public Schools  
Chesapeake, VA**

Dr. Moyer became a Career and Technical Education supervisor for Chesapeake Public Schools, VA in 2008, where he supervises 121 technology education, family and consumer sciences, and trade and industrial teachers. After serving a successful 27-year United States Navy career, Dr. Moyer earned his MS in Occupational and Technical Studies in 2003 and his Ph.D. in Education (concentration in Occupational and Technical Studies) from Old Dominion University in 2009.

While teaching high school technology education in Chesapeake, VA for five years, Dr. Moyer served as a Technology Student Association Co-Advisor, during which time his school's TSA program realized tremendous growth and success. Each year several of his students advanced to the national level of competition. Dr. Moyer's TSA involvement continues, and he has coordinated and judged at regional and state events as well as served on the regional TSA planning committee.

Dr. Moyer has published articles in education, technology and engineering, and career and technical education professional journals. He has delivered presentations at the regional, state, and national levels. His articles and presentations have focused on technology education and core academic curriculum alignment as well as addressing future challenges facing the technology education profession.

During 2008 and 2009, Dr. Moyer participated as a steering team member and helped guide the specifications and development of the 2014 National Assessment of Educational Proficiency – Technology and Engineering Assessment. As a member of the Virginia Career and Technical Education Supervisors *Future of Technology Education in Virginia* committee, he is helping to determine future curriculum needs, delivery methods, and assessment.

Dr. Moyer is currently serving as the Virginia Technology Education Association (VTEA) President Elect. In 2008 he was selected as the VTEA High School Technology Teacher of the Year and was presented with the VTEA Achievement Award for his performance as the VTEA Elections Committee Chair. He was also awarded the Pitsco/Hearlihy/

FTE Grant in 2008. In 2009 he received the Old Dominion University Outstanding Technology Education Graduate Student Award and ITEEA's Teacher Excellence Award and Outstanding Graduate Student Citation.

Working closely with the school division core area supervisors, school administrators, and teachers, Dr. Moye will continue to advertise how technology education courses align with core academics and aid in student achievement. It is well known within the technology and engineering ranks that our programs put science and mathematics into context, which Dr. Moye hopes to help more teachers understand.

Dr. Moye has been very fortunate to have been mentored by Dr. John M. Ritz, DTE of Old Dominion University and Mr. Robert F. Head, past Chesapeake Public Schools Career and Technical Education Program Director. Their direction, sage advice, and friendship have ensured Dr. Moye's success.



### Terrie Rust

**Technology Education Educator from Arizona**  
**Serving as an Albert Einstein Distinguished Educator Fellow National Science Foundation Arlington, VA**

Terrie Rust has taught technology education and career exploration to middle school students for eighteen years at Oasis Elementary School in the Peoria Unified School District, Peoria, AZ. Her program was recognized through ITEEA's Program Excellence Award in March 2010. Terrie's enthusiasm for the field of technology led to the creation of a Girls Exploring Technology (G.E.T.) club at her school. The club's purpose is to provide girls with a greater opportunity to explore areas of technology in which women are often underrepresented. The program was highlighted in the Fall 2006 issue of *Illinois Journal of Technology Education* entitled "Girls Exploring Technology: A Program to Involve Girls in Underserved Careers." She was awarded the Visible Difference Award from the Arizona Association of Career and Technical Education in 2007 for her work with G.E.T.

Terrie holds B.A., M.A., and M.Ed. degrees. She is a member of Phi Kappa Phi Honor Society. Terrie serves as the AZ state affiliate representative to ITEEA. She is also a member of the Association of Career and Technical Education at the state and national levels, and the Computer Science Teachers Association. She serves on the Editorial

Review Board for ITEEA's *Technology and Engineering Teacher* journal.

Terrie's teaching merit was recognized by the Arizona Technology Industrial Education Association as the Industrial Technology Teacher of the Year in 2006, and through ITEEA's Teacher Excellence Award, which she also received in 2006.

In March 2010, Terrie was selected as an Albert Einstein Distinguished Educator Fellow. Her fellowship at the National Science Foundation's Education and Resources Directorate, Division of Research in Learning in Formal and Informal Settings, Lifelong Learning Cluster (LLC) during this school year is providing a unique opportunity for input into STEM education issues and furtherance of lifelong learning opportunities for "students" of all ages. 🌐

Content  
for **SUCCESS**

Accurate | Authoritative | Dynamic

TECHNOLOGY  
Exploring Our World

Exploring Design,  
Technology  
& Engineering

Technology &  
Engineering

Choose **G-W**, the best products for  
Technology and Engineering Education

**G-W**  
PUBLISHER

Goodheart-Willcox Publisher  
800.323.0440 • www.g-w.com

Copyright of Technology & Engineering Teacher is the property of International Technology & Engineering Educators Association and its content may not be copied or emailed to multiple sites or posted to a listserv without the copyright holder's express written permission. However, users may print, download, or email articles for individual use.

**Fonte: Technology & Engineering Teacher, v. 70, n. 6, p. 32-35, 2011. [Base de Dados].  
Disponível em: <<http://web.ebscohost.com>>. Acesso em: 29 mar. 2011.**

A utilização deste artigo é exclusiva para fins educacionais