

Presenter Biographies: April 25th, 2014

Terry Hull, Principal Engineer, INTERA Incorporated

Terry practices water resources, coastal, and bio- engineering. He received a BS degree in bio-medical engineering from the University of Tennessee, and a MS degree in fluid dynamics from the University of Florida. He currently serves as a principal at INTERA where he leads its southeastern US division.

Terry's honors include 2006 Engineer's Week Engineer of the Year for Northeast Florida, Florida Engineering Society's 2008 Outstanding Service to a Student Chapter Award, 2009 FES Engineer of the Year, and 2012 Award for Outstanding Service to the Engineering Profession, as well as the National Society of Professional Engineers' 2013 Distinguished Service Award.

FES President-Elect, Terry is a founding member of the Lee High School Engineering Academy Advisory Board, and the Jacksonville Affiliate for the ACE Mentoring Program (also serving on the National Affiliates Council). He also serves on the University of North Florida's Dean's Leadership Council for the College of Construction, Engineering, and Computing.

Kenneth Church, Ph.D., CEO, nScript Inc.

Dr. Church is the founder of Sciperio Inc., a research company for advanced innovation. Sciperio has worked and developed in a wide range of technical areas to include electronics, antennas, tissue engineering, water and sensors. Funding for these efforts has come from a variety of private and government entities. Technologies and companies have spun out of Sciperio which include nScript (a capital equipment company), VaxDesign (a rapid vaccine test company) and Newton Cyberfacturing (a contract manufacturing company). In addition to working with Sciperio he is on the board of directors for both nScript and Newton Cyberfacturing. He is a Trustee for the 1213 Charitable Trust (non-profit organization for disadvantaged children) and he serves as director of commercialization for the W.M. Keck Center for 3D innovation at University of Texas El Paso. His research interests have been broad and have reached into lasers and the various ways in which they interact with different materials, various water technologies, novel antenna designs and optimization, novel and conformal electronic devices and processes, and tissue engineered materials and processes and direct and 3D printing. Dr. Church has managed numerous R&D projects funded by the Defense Advanced Research Projects Agency (DARPA), the National Science Foundation (NSF), the U.S. Air Force, the U.S. Navy, the U.S. Army, the Department of Justice, Missile Defense Agency (MDA), OCAST, National Institutes of Health (NIH) and various private institutions. Dr. Church earned a BS in both Physics and Electrical Engineering from Oklahoma Christian University of Science and Arts and an M.S. and Ph.D. in Electrical Engineering from Oklahoma State University.

Dr. Melissa Dagley, Executive Director, Initiatives in STEM, University of Central Florida

Melissa Dagley is the Executive Director of Initiatives in STEM (iSTEM) at the University of Central Florida. Dr. Dagley serves as Director and Co-PI of the NSF-funded STEP 1a and 1b programs "EXCEL:UCF-STEP Pathways to STEM: From Promise to Prominence" and "Convincing Outstanding-Math-Potential Admits to Succeed in STEM (COMPASS)". She is currently a Co-PI for the Girls EXCELLing in Math and Science (GEMS) and WISE@UCF industry funded women's mentoring initiatives. Through iSTEM Dr. Dagley works to promote and enhance collaborative efforts on STEM education and research by bringing together colleges, centers, and institutes on campus, as well as other stakeholders with similar interest in STEM initiatives. Her research interests lie in the areas of student access to education, sense of community, retention, first-year experience, living-learning communities, and persistence to graduation for students in science, technology, engineering, and mathematics programs.

Mr. Jim Clamons, VP Design Engineering, Harris Corporation

Mr. Clamons is a Vice President of Design Engineering Harris Government Communications Systems (GCS). He is responsible for talent management and professional growth of over 3000 GCS engineers. He joined Harris in 1977 and has held positions of increasing responsibility throughout his career in the areas of planning, organizing, managing, and directing and plays a key role in successfully achieving financial and business objectives. Mr. Clamons received both bachelor and master of science degrees in mathematics and computer science, respectively, from Purdue University.

He is a member of the Aerospace Industries Association (AIA), Board of Directors on the Central Florida STEM Education Council (CFSEC), Florida State University College of Engineering Dean's Advisory Council, the FSU Computer Science Advisory Council, and Purdue University's Computer Science Corporate Partners Program. Mr. Clamons is currently serving as Chairman of the Board of Directors of the Space Coast Early Intervention Center (SCEIC).

Dr. Kevin Erhart, Chief Engineer, .decimal, Inc

Kevin Erhart is a long-time resident of the Central Florida area attending the University of Central Florida (UCF) for his academic studies. He received his Doctorate of Philosophy in Mechanical Engineering in 2009 where studies included an emphasis in Thermodynamics, Fluid Mechanics, and Heat Transfer. He completed his graduate work with a 4.0 GPA and received several prestigious scholarships and awards including being named as a: UCF High Achievement Scholar, Kersten Graduate Fellow, and Trustees Doctoral Fellow. Through his studies, as well as work as a private contractor, he has gained expertise in the areas of computational fluid dynamics and heat transfer, computational mechanics, general numerical methods, Boundary Element Methods, Meshless Methods, computer programming, and radiation treatment planning. He has authored several international journal articles and presented his work at numerous conferences throughout the United States and Europe. He was also a graduate

Teaching Associate while at the University of Central Florida and received the 2008 Award for Graduate Student Teaching Excellence from the College of Engineering and Computer Science.

Currently, Dr. Erhart is the Chief Engineer at .decimal, Inc., a world leading manufacturer of patient-specific medical devices for radiation therapy. Dr. Erhart is responsible for development of new products, development of software tools and procedures for manufacturing automation, as well as the project manager for the company's latest proton therapy treatment planning software.

CAPT Steven Nakagawa, Commanding Officer, Naval Air Warfare Center Training Systems Division

Captain Steven "Snak" Nakagawa, a native of Monterey, California, was commissioned in 1986 through the Naval Reserve Officer Training Corps program at the University of Southern California (USC), where he earned a Bachelor of Science degree in Mechanical Engineering. He was designated a Naval Flight Officer in April 1988 following flight training in Pensacola, Florida. He received Bombardier/Navigator (B/N) training in the A-6 Intruder with the "Golden Intruders" of Attack Squadron One Two Eight (VA-128) at Naval Air Station Whidbey Island, Washington.

During his operational career, Captain Nakagawa flew in A-6 Intruders with Attack Squadron Nine Five (VA-95) "Green Lizards" where he completed three deployments aboard USS Enterprise (CVN-65) and USS Abraham Lincoln (CVN-72). He served as an Instructor B/N with Fleet Replacement Attack Squadron One Two Eight (VA-128). In January 1996, he reported to Attack Squadron One Nine Six (VA-196) "Main Battery," deploying aboard USS Carl Vinson (CVN-70). Transitioning to the EA-6B Prowler aircraft as an Electronics Countermeasures Officer (ECMO), he was assigned to "Scorpions" of Tactical Electronic Attack Squadron One Three Two (VAQ-132) in March 2000. During two deployments, he flew combat missions from the USS Dwight D. Eisenhower (CVN-69) and as electronic attack embedded support with U.S. Air Force and Coalition Air Expeditionary Forces at Prince Sultan Air Base, Saudi Arabia.

Captain Nakagawa graduated from the U.S. Naval Test Pilot School at NAS Patuxent River, Maryland and was assigned to the Strike Aircraft Test Directorate from January 1994 to January 1996 where he was the Test Project Officer for various avionics and weapon systems on the A-6, F-14 and F/A-18 aircraft.

Following his final deployment, Captain Nakagawa transitioned to the Aerospace Engineering Duty Officer (AEDO) community and held various positions at Naval Air Systems Command (NAVAIR) NAS Patuxent River from March 2000 to October 2005. In October 2005, he became the AEDO Assignments Officer for the Navy Personnel Command in Millington, Tennessee where he headed up acquisition selection processes for all Naval Aviation command screen boards.

Captain Nakagawa continued his Navy acquisition experience at the Space and Naval Warfare Systems Command (SPAWAR) in San Diego, California, where he served as Director, Launch Systems Division in the Navy Communications Satellite Program Office, Program Executive Office, Space Systems (PMW-146); and as the Chief of Staff to the Program Executive Officer for Command, Control, Communications, Computers, and Intelligence (PEO C4I). Captain Nakagawa served as the Executive Officer of Naval Air Warfare Center Training Systems Division (NAWCTSD) for two years prior to assuming command in June 2012.

Captain Nakagawa has more than 2,700 flight hours in 23 different types of aircraft, with 652 carrier arrested landings. He has a Master of Science Degree in Aviation Systems Management from the University of Tennessee Space Institute and is a member of the Defense Acquisition Corps.

Dr. Roger Smith, Chief Technology Officer, Florida Hospital Nicholson Center

Roger Smith, PhD, is an expert in the development of simulation devices and training programs. He has spent 25 years creating leading edge simulators for the Department of Defense and Intelligence agencies, as well as accredited methods for training with these devices. He is currently the Chief Technology Officer for the Florida Hospital Nicholson Center where he is responsible for establishing the technology strategy and leading technology implementation. He has served as the CTO for the U.S. Army PEO for Simulation, Training and Instrumentation (PEO-STRI); VP and CTO for training systems at Titan Corp; and Vice President of Technology at BTG Inc. He holds a Ph.D. in Computer Science, a Doctorate in Management, and an M.S. in Statistics. He has published 3 professional textbooks on simulation, 10 book chapters, and over 100 journal and conference papers. His most recent book is Innovation for Innovators: Leadership in a Changing World. He has served on the editorial boards of the Transactions on Modeling and Computer Simulation and the Research Technology Management journals.

Mr. Neil Ferguson, Engineering Director, Harris Healthcare Solutions

Mr. Ferguson is currently the Engineering Director for Harris Healthcare Solutions where he provides leadership to the commercial product development and engineering teams. Harris Healthcare Solutions provides solutions and services for commercial and government healthcare customers, including interoperability, imaging, managed services infrastructure, systems and cyber integration, and informatics. He has over 30 years of industry experience in the definition and development of information processing and communications systems and solutions. He is a graduate of Georgia Institute of Technology. He holds a Bachelor of Science degree in Computer Science. He also heads up all the Harris recruiting and student involvement activities at Georgia Tech.

Mr. Abdul Siddiqui, Software Engineer, US Army PEO STRI

Abdul M. Siddiqui started working for the US Army as a Systems Engineer in 1991. He was the Software Engineering Manager for the Bradley Fighting Vehicle System, TACOM from 1998 to

2004. He is currently the resident subject matter expert in software architecture development for systems and productlines at US Army Program Executive Office for Simulation, Training and Instrumentation (PEO STRI). He is the lead for Configuration Management and Information Assurance Security Officer for Program Manager Digitized Training and leads the effort to certify and accredit the Digital Range Training System since 2007. He is the Engineering Mentor and STEM Coordinator for PEO STRI. Mr. Siddiqui received his Master of Science in Software Engineering form the Naval Postgraduate School, CA in December 2000. He is married and has three boys.

Jeanne Neff, P-SELL/STEM Coordinator, Orange County Public Schools

Jeanne Neff has been an educator for Orange County Public Schools since 1990. For 20 years, she was a classroom teacher, teaching Science to middle and elementary students. Recently, Jeanne was appointed the position of P-SELL/STEM Coordinator for the district. She graduated with her BS and Masters' degrees from the University of Central Florida and has been a lifelong resident of Orlando. As the parent of three sons who attend public schools in Orange County, Jeanne feels that STEM education will continue to grow and flourish.

Ms. Latasha Fisher, Lead STEM Coordinator, Florida Department of Education

Latasha Fisher is the Lead STEM Coordinator for the Florida Department of Education. In this role, she evaluates Science, Technology, Engineering and Mathematics (STEM) content, programs and curriculum for the Race to the Top grant and guides a team of 20 regional coordinators in development of STEM pathways. She is building collaborations and is sharing expertise and innovative ideas with districts, consortiums and various community partners. She served as a member of the task force for the STEM strategic plan for Florida and continues to support STEM initiatives throughout the state.

Latasha holds a Master of Science from Old Dominion University in Secondary Education-Chemistry, and a Bachelors of Science in Chemistry from Florida A & M University. She has over 7 years laboratory experience and 6 years teaching experience. Her career focus is to make the teaching and learning of STEM fields more meaningful to students.

Mrs. Jessica Hooper, Director of School Engagement, Project Lead the Way

Jessica Hooper is the Florida Director of School Engagement for Project Lead the Way, a national non-profit and has the privilege to grow STEM programs across the state of Florida. In this capacity, Jessica collaborates with statewide leaders, the Florida Department of Education, higher education leaders, and the K-12 community to create more pathways for middle and high school students in engineering and biomedical sciences.

Jessica Hooper is a native of Massachusetts and came to Florida in 2002. From 2003-2006 Jessica served a Legislative Aide for State Representative J. Dudley Goodlette under the Jeb Bush Administration. She managed budget requests, moved legislative issues through the

committee process, and was the main point of contact for constituent services. One accomplishment Jessica is proud of is the successful passage of 23 of 24 bills. After Representative J. Dudley Goodlette fulfilled his term; Jessica was the Vice President for the Leadership Collier Foundation through the Naples Chamber of Commerce. In this role, she managed a board of directors and three community leadership programs. Jessica was a member of the Naples Kiwanis, volunteer for PACE Center for Girls in Immokalee, and Area Governor for Toastmasters International.

Jessica was a professional fundraiser for the University of South Florida St. Petersburg. She worked closely with alumni and the board of directors to position the university in the community as a public asset. Jessica is active in the Tampa Bay community and serves on the Boards of Feather Sound Country Club, Feather Sound Ladies Tennis Association, and is a member of Suncoast Tiger Bay and Business and Professional Women of St. Petersburg. She is a graduate of the University of Massachusetts Amherst and passionate about the future of education. In her spare time, Jessica is developing a plan for a high school in Tampa Bay focused on leadership in science serving young women. Jessica and her husband Tim are proud parents of Hillary Hooper.

Mr. Joe Pizzarello, Director of Operations - Middle Schools, YMCA of Central Florida

Joe Pizzarello is the Director of Middle School Programs for the YMCA of Central Florida. He has been with the YMCA for over 16 years working with youth in out of school time programs. Joe and the YMCA of Central Florida focus on the key areas of Literacy, Health and Wellness, Values, and Family Involvement within their programs. In addition to these four key areas Joe has a passion for STEM education, College and Career Readiness programs and ensuring all youth reach their fullest potential. Joe studied education at the University of Central Florida. In addition to his work at the YMCA, Joe is STEM Education Council of Central Florida, the Pastor Council for his church, the steering committee for Change Starts with Me, Volunteer Committee of Drug Free Living, teaches safety classes through ASHI and is a volunteer coach for youth sports.

Dr. Leedjia Svec, LCDR, Defense Equal Opportunity Management Institute/Women in Defense

Lieutenant Commander Svec is a Naval research officer stationed at the Defense Equal Opportunity Management Institute (DEOMI), Patrick Air Force Base Florida. She is a senior scientist and director of basic and applied research and a fellow of the Institute for Culture and Language at Norwich University. She manages the Office of Naval Research (ONR) Science Technology Engineering and Math (STEM) summer internship program for DEOMI, is a member of Space Coast Women in Defense STEM council, and author of Stylish STEM, a STEM, women, and diversity blog (<http://stylishstem.blogspot.com/>). Her formal education is in psychology, engineering technology, and international relations. Past assignments include Lockheed Martin, Naval Air Systems Command, and the Center for Information Dominance. Past achievements include international young investigator award, national engaged leader award, and selection for who's who among college students.

Mr. John McHale, Principal, Deerwood Elementary School

John McHale is currently principal at Deerwood Elementary School in Orlando, FL. The school serves a diverse community, and is dedicated to providing an environment that fosters creativity, builds confidence, challenges limits, and rewards excellence. Prior to Deerwood, he was Assistant Principal of Instruction at Timber Creek High School, the only traditional high school to achieve all AYP goals as part of the No Child Left Behind initiative. He has presented to young educators on the future of education. He has run a sub 4 hour marathon, visited China on an educational exchange and is working on his EdD at UCF. His wife is an accomplished attorney, and his three children are all attending colleges or universities (which determines his need for continued gainful employment). He believes children are capable of great things, and works to empower all. Finally, he has two loud and lovable hound dogs that challenge his patience more than any newly legislated educational mandates!

Mr. Jose Bastias, Senior Service Director, Boys & Girls Clubs of Central Florida Walt Disney World Clubhouse

Jose Bastias has been a part of the Boys & Girls Clubs movement since 2008 and has worked in youth development for the past 12 years. He began working at the Boys & Girls Club of Central Florida Walt Disney World Clubhouse in 2008, first as the Program Director and was later promoted to Service Director in 2010 and Senior Service Director in 2014. During Jose's tenure, the Walt Disney World Clubhouse has won the BGCA Youth for Unity Award (2008), National Program Excellence Award in Health & Life Skills (2009), and the Florida Area Council's Florida Program Award for Program Excellence in the Arts (2010 & 2011).

Jose also serves at the Vice President for the Orlando Chapter of the National Society of Hispanic MBAs and graduated from the State University of New York at Buffalo of Arts degree in Psychology.