



## 2009-2010 Elected ETA International Board of Directors BIOGRAPHIES

### **Chairman – Scott Bachrach, CETma**



Scott Bachrach is the Senior Vice President of Mobile Training & Education, a training firm that provides services to colleges and universities across the country. He works regularly with students from a range of disciplines, including military personnel and telecommunications workers to expand their knowledge and obtain certifications in electronics, as well as other areas.

In addition to his responsibilities at Mobile Training & Education, Scott is Secretary of the National Coalition for Electronics Education. Scott travels across the country representing ETA at various trade shows and education events to further the outreach of the organization.

Prior to his current position, Scott was the Director of Information Technology for Unitex Textile Rental Services for 11 years, a premier healthcare related company in the North East, where he researched, designed, implemented, and supported a variety of electronics in a fast paced production environment. Scott's systems experience encompassed everything from basic office systems, custom computer applications, local and wide area networking, telecommunications, RFID, plant automation and various other electronic systems.

Mobile Training & Education began its relationship with ETA in late 2005, since then over 4000 certifications have been processed between ETA and MT&E.

### **Vice Chairman – Thomas Cawley, B-VoIP, PVI**



Tom currently lives on his high desert ranch in San Diego County with his wife and 17-year-old son. He culminated his 30-year career at AT&T as a Senior Data Network Engineer. Although he is primarily know as a Protocol Analysis and Network Design Expert, his core responsibilities at AT&T included the implementation and sustaining engineering for SBC (AT&T) backbone fiber optic data network. After retiring from AT&T, Tom served as Director of Curriculum at a local school, and worked on his amateur interests in photovoltaics and electric vehicles. Tom also worked in photovoltaic installation and design for a family electrical firm.

Tom now serves as Senior Instructor and Chief Operations Officer for AmeriSkills, a vocational training school affiliated with the California Community College District at MiraCosta College in Oceanside, California. He currently instructs Fiber Optics, VoIP, IPTV, Basic Electronics (CET), Data Communications, Photovoltaic Installer, and Small Wind Generation.

Tom has been a member of ETA since 2003. He has served on two certifications committees; VoIP, and recently the Alternative Energy Certification Committee for the Photovoltaic and Wind certifications. Tom has presented VoIP seminars at the ETA conference in 2007 and helped many other ETA schools develop training in VoIP, Advanced IP services, and recently Photovoltaic Installer classes. He holds B-VoIP, Fiber Optics and PV Installer certifications with ETA.

In his spare time he mentors a high school robotics team with his son who is the chief fabricator. He is a member of Electric Vehicle Association and currently working on his third electric car. Tom studied Architectural Engineering at Rensselaer Polytechnic Institute, and Data Communications at U.C. Berkeley.



### **Secretary – Joseph Delio, CETsr**



Joseph has been an educator in Ohio for over twenty years teaching Career and Technical Education. His teaching experience includes public, private, and apprenticeship training in the area of electronic engineering. Early in his career, Joe was employed as a technical representative in the areas of environmental controls, energy management and fire/security systems.

Joe is a Senior Certified Electronic Technician specializing in residential electronic systems integration including networking, environmental controls, audio/video and electronic security/surveillance. He is a Certification Administrator for ETA and a past nominee for Educator of the Year by ETA. Throughout his career, Delio has been a driving force in the Tech Prep initiative and has been very active in creating and modifying the competency assessment tools used in Career and Technical Education.

Throughout his career Joe has also been a consultant to the Ohio Department of Education, Cuyahoga Community College and private industry. Recently he has taken an active role in the field of human resources in candidate development, specializing in education related and technical recruiting.

### **Treasurer – Rayford Stroud, CETma**



Ray Stroud grew up in a rural community near the small town of Ada, Oklahoma. In 1961, he enlisted in the US Air Force where over a 22-year career he had many noteworthy accomplishments in technical education. After retiring from The US Air Force as a Chief Master Sergeant, he enlisted in the Texas Guard where he received many accolades for his work as an operation and training officer, and after 20 more years of military service, retired from the Texas Guard as a LTC.

During his 42 years of military service he was recognized as the 1972 Air Training Command's "Senior Instructor of the Year", became one of the founding fathers of Community College of the Air Force, where he shared the 1974 "Hoyt S. Vandenberg" award. He also received the USAF Association's Citation of Honor for the most outstanding contribution to Aerospace Education for 1973 he was named the USAF School of Logistics Senior Instructor of the Year 1979, and was personally cited by the Undersecretary of the Air Force for manpower for his contributions toward Air Force technical education.

While serving at CCAF he was personally credited with the development of seven Associate of Applied Science Degrees, serving as Chairman of the Curricula Committee and as a member of the policy council, negotiating most CCAF's articulation agreements with universities in the United States, and for assisting in the preparation of the College for regional accreditation with both the North Central Association and the Southern Association of Colleges and Schools.

His other accomplishments while in the Air Force were equally noteworthy. In his final assignment he was cited by the (then) Chairman of the Joint Chiefs Gen. Larry D. Brown for leading a Special Operations Support team that for three years had no late take-offs, failed missions or late over targets. In 1983, he was declared by the Chairman of the Joint Chiefs to be an "Able Warrior" and cited for making significant contributions toward the security of the free world. His military Decorations include 4 Meritorious Service Medals 2 Air Force Commendation Medals, the Viet Nam Cross of Gallantry and numerous other Awards and decorations.

After retiring from the US Air Force and while he was in the Texas Guard he pursued a career in technical education. His civilian career has been equally outstanding. As one of only two people to have ever done so, Stroud is a two-time recipient of the Electronics Technicians Association International "Norris R. Browne Memorial – Technician of the Year Award". He was also ETA's CA of the year for 1996, 2003, and 2008. He is Vice President of the International Certification Accreditation Council, and has contributed to numerous articles and publications as well as co-authoring with Chuck Brooks a book entitled "Commercial Low Voltage Wiring".



He has held several teaching positions including at various schools including Texas A&M Engineering Extension Service, West Virginia State Technical and Community College, University of Central Missouri, and is currently a Senior Adjunct for Baker University where he teaches telecommunications. He has also held many educational administration positions including the Education Director at Hallmark Institute of Technology, Assistant Vice President of Operations Detrain Institute, Vice president of operations Techs-n-Training, and Vice President of operations I-tech Global Communications.

For the past 20 years he has made many outstanding contributions to ETA including being part of committees that created the following certifications: Fiber Optics, Certified Computer Technician, Wireless Networking Technician, Certified Network Systems Technician, Broadband-Voice over IP, and is the principal architect of both the Residential Electronics Systems Integrator and the Alternative Energy Integrator programs.

Ray graduated Suma Cum Laude with a BS degree from Texas State University at San Marcos. He also holds the following degrees: AAS Avionics CCAF, AAS Management CCAF, AAS Instructor in Technology CCAF, AAS Pneudrolics Systems Technology CAFF, AS Technical Administration Oklahoma City Southwestern College (Summa Cum Laude), and AA Social Science University of New York.

#### **Communications Division Chair – Stephen Fleeman**



Professor Fleeman is the Academic Chair of the Electronic Engineering Technology department at Rock Valley College in Rockford, Illinois. He has taught at Rock Valley College for 27 years. Stephen retired recently from Hamilton Sundstrand (an aerospace company) after having served 31 years as an electrical engineer in the areas of test engineering and ground support equipment. He has served on the ETA Alternative Energy Hybrid System Integrator Certification Committee, and is engaged in the development of a curriculum at Rock Valley College that incorporates the ETA certification requirements.

#### **Communications Division Secretary/Treasurer – Thomas Dover, FOI**

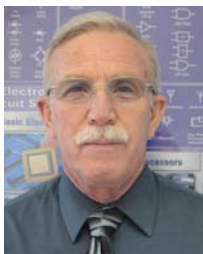


Tom Dover has spent an entire career managing, maintaining and teaching telecommunication networks. His experience includes telecommunication technology fundamentals, specialty equipment and safety programs for utility companies, government agencies, and private organizations.

Tom has delivered training at over 200 sites nationwide, with a focus on utility microwave mobile and cellular based radio networks and wireless systems. He has designed and presented training courses in technical and non-technical subjects and is currently producing a complete library of on-line learning courses for communication students and institutions. Tom is an authorized OSHA Outreach Instructor and course chair for General Industry and

Construction. Tom is the President of DTS, Inc a Utah based training, program development, and production company.

#### **Education Division Chair – William Sutton, CET**



William C. Sutton is the Chair of the School of Electronics Technology and as such is the curriculum expert for his programs of study. Bill began working for ITT Technical Institute in 1993 as an electronics instructor and was promoted to education supervisor in 1999 and then to School Chair in 2001 and currently serves on the National Curriculum Committee for ITT Corporate curriculum development and updates. He earned his A.S.T and B.A.S. in Electronics Engineering Technology from ITT Technical Institute and his M.S. in Post Secondary and Adult Education from Capella University. Bill started his career with twenty-two years of military service, retiring with the rank of Chief Warrant Officer 2.

He worked four years for MCI WorldCom and two years as an independent contractor (electronics) for Auto-Photo Systems as a field service technician. Bill is an ETA International Certified Electronics Technician Journeyman with



an industrial electronics endorsement. Bill currently serves in the position of Chairman for the ETA International and as a Certification Administrator. He also serves as the VA Certifying Official for the college.

**Education Division Secretary/Treasurer – Thomas Millen**



Thomas Millen is an assistant professor with the Electronics & Computer Technology department of the Ivy Tech Community College in Bloomington, Indiana. He received his AAS in Electronics Communications from Ivy Tech and later his Bachelor of Science in Electrical Engineering from the University of Arkansas. Tom has worked in academic laboratories, communications, weather radar, and biomedical fields. His teaching interest includes microcontrollers, C programming, robotics & mechatronics, communications, circuit analysis, and photonics. He is now working on the development of an alternative energy program at Ivy Tech Bloomington as well. He is a Certification Administrator for the ETA at Ivy Tech.

Tom brings previous experience with both state-level and national-level volunteer association boards. He had served on the Board of Directors for the National Association for Search and Rescue as well as the Indiana Search and Rescue Association. Tom also serves as an officer in the Indiana Guard Reserve.

"It is my desire to support the ETA to a greater level by serving as its Secretary/Treasurer within the Education Division. I would like to do what I can to see that ETA continues to expand its certification offerings to the two-year technical and community college system."

**Certified Technician Division Chair – Richard Booth, FOT**



Richard Booth currently serves as a senior instructor/staff with Complete Learning Solutions. His wide range of knowledge includes, but is not limited to, Fiber Optics, Electrical Engineering, Avionics and Information Technology. With his collective skillset Richard often volunteers his resources to provide virtually unlimited technical and creative learning possibilities to local and regional private and public schools.

While Serving in the USAF, Richard was the Detachment Production Superintendent for Field Training Detachment 211 at Davis-Monthan Air Force Base prior to his retirement. During his 20+ years Air Force career, he personally conducted over 9,400 formal classroom hours for 1,050 aircraft technicians. As Detachment 211's lead instructor, Richard also acted as an intra and interservice liaison for the United States Navy's Miniature/Microminiature circuit card repair program. Additionally, he personally developed courseware and oversaw courseware development for 60+ Air Force Electronics, Avionics and Information Technology courses. As part of his duties, Richard directed and managed the Detachment's IT department in support of LAN operations and offsite database security.

Richard has earned several certifications and higher level awards while in the U.S. Air Force in the disciplines of: Air Education and Training Command, Occupational Instructor, Teaching and Air Force Logistics I and II, Information Technology, Electrical Engineering, and Avionics. He also received several A.S. Degrees from the Community College of the Air Force, BSBIS and MSMIS Degrees from University of Phoenix. He also serves as a subject matter expert for ETA.

**Certified Technician Division Secretary/Treasurer – Richard Agard, CET, RESIma**



Richard Agard has been a technical instructor for over twenty years. Besides his teaching at the Engineers Club of Philadelphia, he also teaches at Penn State Abington, The Thompson Institute in Philadelphia and at Septa's Light Rail Training Center in Upper Darby. He was formerly head of the Electronics Department at the Philadelphia Wireless Technical Institute where he developed Pennsylvania's first ETA certified fiber optics training program. He was a communications system technician at Septa for over eighteen years where he has worked with fiber optics since the early 1990's. Recently he has been active with the development of a new Photovoltaic Installer's Certification.



#### **Shop Division Chair – J. Shane Morris, CETma**

Shane has been with Motorola for 13 years and currently serves as a Senior System Technologist & Electrical Administrator. Mr. Morris graduated from Bates Technical College in 1987 with a two-year vocational degree in Communications Electronics and in 2008 with an Associate of Science in Electronics Engineering Technology from Grantham University. He has 22 years of experience in the electronics industry. Morris is currently enrolled with Grantham University working on a Bachelor of Science degree in Electronics Engineering Technology (only four classes remaining).

Shane is a master CET with numerous ETA certifications including areas in Wireless and Telecommunications, RADAR, RF Line Sweeping, Industrial Technician, Computer Service and Networking, T1 Link, RF Signal, Customer Service, and Certified Service Manager, as well as several FCC licenses. Morris is also a certified Electrical Administrator by the State of Washington. Shane is involved with the development in several of the Motorola certification exams and training classes including, Antenna System Commissioning (ASA), Communications Site Installation Inspector (CSII), Communications Site Installer (MR56), RF Signal Investigation (SIT). He also helped on the T1LV exam and recently was on the ETA USMSS exam committee. In addition, Shane teaches all of these classes to Motorola employees, shops, and contractors. He currently lives in Buckley, WA (50 miles SE of Seattle) and is married with five kids.

#### **Shop Division Secretary/Treasurer - Tom Janca, CETsr**



Tom is currently an engineer designing SCADA and Smart Grid communication systems for POWER Engineer clients nationally while consulting and training independently. He has given warmly welcomed presentations for ETA conventions since 2003 with a discussion of CDMA technology to last year's presentation on the Smith Chart and VNA measurements. He has also served for the past few years on the technical committee for the ETA sponsored telecom contest at the SkillsUSA Nationals. With over 24 years of experience in technology and still counting, he brings personal experience and insightful historic perspectives to his presentations in a lively and engaging manner. His passion is people and the technology that connects and enriches their lives.

#### **Director of Student Chapter Relations – Matthew Jorgenson, CETma**



Jorgenson was born in Cincinnati, Ohio, and grew up in Efland, North Carolina. He graduated from Orange High School in Hillsborough, North Carolina, with honors as president of the National Technical Honors Society. He joined the North Carolina National Guard in October 2003 and was sent to Fort Jackson, South Carolina, for basic training. Upon completion of basic training, Matt went to Fort Gordon, Georgia, for 31R(Multi-Channel Transmissions Systems Operator Maintainer), which is now 25Q. In June 2005, he was honorably discharged from the National Guard and enlisted in the Regular Army the same month. He reported to his first duty station at Fort Polk, Louisiana, in October 2005 and was assigned to BSTB 4/10 MTN DIV. In March 2006, Matt was attached to 2/10 MTN DIV during their rotation at NTC. Upon completion of the rotation, he received an Army Achievement Medal for flawless signal support operating the HCLOS. As his military term was coming to an end, he was afforded the opportunity to take classes with the University of Central Missouri to enhance his communication technology abilities. During these classes he was able to take various certification exams, which eventually allowed him to become the youngest person to ever attain the ETA master designation, CETma. Currently he is a police officer at the University of North Carolina. His goal is to become a cyber crimes investigator.

Jorgenson has achieved his master status with ETA by receiving the following certifications: Computer Service Technician (CST), Certified Network Computer Technician (CNCT), Certified Network Systems Technician (CNST), Certified Fiber Optics Installer (FOI), Certified Fiber Optics Technician (FOT), Certified Broadband VoIP (B-VoIP), Certified Wireless Network Technician (WNT), and FCC General Radiotelephone Operator (GROL) with Ship Radar Endorsement.



**Cabling Division Chair – Robert Hickey, FOI, DCI**



Bob started installing fiber optics and data cabling in 1993. He continued until 1996 and then started teaching in the fiber and data cabling industry. He has installed fiber optics and data cabling at the following locations, the Massachusetts State building, Lahey Clinic, North Shore Community College, MCI World Com, along with Smarthome installations in Naples, FL. Some of the Fiber Optic and cabling training bob has done in the past 12 years has been for Verizon, Army National Guard, US Air Force, US Navy, and US Army. He has instructed at Brooklyn College, NY, Queensboro College, NY, Nash Community College, NC, North Shore Community College, MA and several other colleges on a contract base. He continues to teach at North Shore Community College part time.

He retired in 1993 from the USMC after 22 years of service. He is a member of the SkillsUSA National Education Team for Telecom cabling and currently employed at Complete Learning Solutions as the Program Director for Telecom training.

**Cabling Division Secretary/Treasurer – Wayne Siverling, FOI, DCI**



Wayne K. Siverling, (MSgt USAF Retired) has over 26 years in the telecommunications industry. Currently, he is an instructor for the US Air Force Cable & Antenna Systems Journeyman Course. Prior to that he was 2E6X2 Communications Cable and Antenna Systems Career Field Development Course Writer for the 364<sup>th</sup> Training Squadron, 782d Training Group, 82d Training Wing, Sheppard Air Force Base, Texas. He is directly responsible for the technical and military training of over 500 U.S. and international military and civilian DoD personnel annually in initial and advanced courses. He provides instruction in basic and advanced fiber optics, telecommunications, and antenna maintenance on the largest and most diverse training base in Air Education and Training Command.

Wayne is directly responsible for the certification testing of 722 ETA Certified (ETA) Fiber Optic Installers. He holds three associate science degrees in Electronics Systems Technology, Military Instructor Technology, and Education Management. He is ETA certified as a Fiber Optics Installer, Fiber Optics Technician, Data Cabling Installer, and Customer Service Specialist. Wayne Siverling Graduated from Salina High Central; Salina Kansas, May 1983. Wayne married his high school sweetheart, they have 4 children, Ashley, Jason, Stefani & Katelynn; 1 Granddaughter Alyssa.