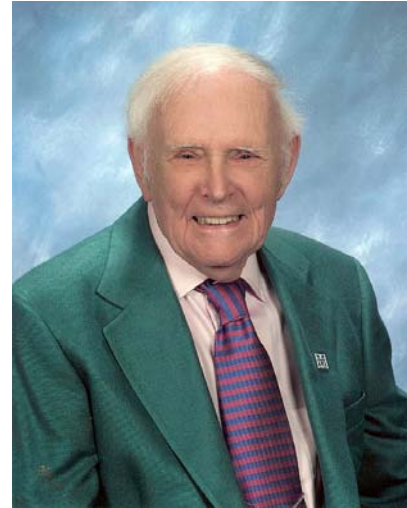




## ECE Department Loses Emeritus Professor

Dr. Waldo “Mac” Libby passed away on January 10, 2009 at a Bangor hospital at the age of 86. He was born in Bangor, Maine on July 21, 1922. He was a 1940 graduate of Bangor High School and received his BS degree from the Electrical Engineering Department at the University of Maine in 1943. He later received a master degree from MIT in 1951 and a PhD from WPI in 1969. Mac began his professional career at the University of Maine in December 1943 and retired as professor emeritus in June 1990. During his tenure at Maine, he was instrumental in starting a full graduate program in EE in the 1950s. Throughout his 47 years he was credited with initiating 14 new courses in the graduate and undergraduate curriculum. He was a local expert in the area of electro-acoustics courses, which eventually led to other courses in noise control and environmental acoustics.



Coming from a musical family, Mac’s lifelong hobby involved music. He was a member of the Bangor Band, its Drum Major in World War II and Bangor Symphony Orchestra. He was one of the founders of the Bangor Savoyards and was seen in leading roles in 17 musical comedy productions in Bangor.

Mac was honored at the Senior Alumni Luncheon on October 24, 2008 on the occasion of establishing the [Waldo “Mac” Libbey Professorship](#). He also has the Waldo Libbey Scholarship in the ECE Department. He will be remembered by many former undergraduates, graduate students, professional colleagues and acoustical consultants all across the country and overseas. We miss him dearly but his legacy stays with us in perpetuity through his contributions, Waldo “Mac” Libbey Professorship and his scholarship fund.

## William G. Stoy and Judith Kenoyer Stoy Scholarship Fund



The [William G. Stoy, Jr. '71 and Judith Kenoyer Stoy Scholarship Fund](#) was established at the University of Maine, Orono, Maine, in 2009 with an annual gift from William G. Stoy, Jr. '71 and Judith Kenoyer Stoy, whose annual gifts will be used to sustain the scholarship.

William and Judith retired from Government Civil Service in 2008 and reside in Brunswick, Maine. Judith graduated in 1971 from Colby College in Waterville with a BA in Russian and English. Bill earned his ASEE in 1967 and followed that with his BSEE in 1971, both from the University of Maine, Orono. He worked at the Portsmouth Naval Shipyard as a co-op student during his undergraduate years. Following graduation he worked at Navy Headquarters in Washington D.C. for 11 years as a Project Manager (PM) developing and deploying Inertial Navigation Systems for Attack Class Submarines. He earned his MSEE in 1977 from Catholic University and pursued advanced studies at George Washington University, both in Washington D.C. For 25 years he was a PM for the National Security Agency (NSA) developing and deploying Intelligence Systems. In his last six years with NSA, Bill served as a PM in England developing the design and construction contracts for buildings with high performance Intelligence Processing Networks and Systems. He has also served on the Adjunct Faculty staff at NSA's National Cryptologic School teaching "Telecommunications Multiplexing and Multimedia Technologies." Judith also worked for NSA for 36 years as a Russian Linguist and Senior Manager.

Bill and Judi both grew up in southern Maine. Judi graduated from Scarborough High School in 1967 and Bill from Sanford High School in 1965. Upon retirement in 2008 they resettled in Maine which they consider their home as most of their family still lives in Maine. They have two sons. Kenneth, 29, graduated in 2005 from Shepherd College, Shepherdstown, West Virginia, with a BS in Mass Communication and Journalism, and he is working as a video editor for a TV news station in Fort Myers, Florida. Matthew, 26, enlisted and served four years in the US Marine Corps (USMC) as a specialist in Embarkation Logistics for a Harrier Squadron based in Yuma, Arizona. Matthew, upon leaving the USMC, has been attending Arizona State University --Tempe, and is working to earn his BS in Parks and Recreation Management as he loves the outdoors. Bill and Judi both feel a strong link to the University of Maine, Orono -- Bill, because of his degree from UMO, and Judi because her mom received her Master's in Education from UMO in 1967.

The fund shall be used to provide scholarship assistance to junior or senior students enrolled in Electrical and Computer Engineering. The donors wish that first preference be given to students with financial need from Maine with the personal characteristics of persistence, hard work and perseverance.

## **Faculty Awards**

### **Ashley Campbell Award - Bruce Segee**

Dr. Bruce Segee, Associate Professor of Electrical and Computer Engineering and Technical Director of the University Supercomputing facility, is the recipient of the 2008 Ashley Campbell Award. Bruce, who holds the Henry R. and Grace V. Butler Professor of Electrical and Computer Engineering, has made outstanding contributions to teaching, research and public service since joining the faculty in 1992.



Bruce loves teaching and is truly interested in students' progress. He is one of the most-liked and top performing faculty members in the department. He brings enthusiasm, energy, and love of the material to the classroom and inspires students to do their best. While he may not be the only faculty member in the University to have done so, he is certainly among the few who have been listed as the instructor for 100 to 600 level courses. With his training, he has impacted the K-12 education in the State of Maine. In the last two years, Bruce has teamed with the Maine Department of Education to host the Maine Science, Technology, Engineering, and Math conferences bringing over 1200 middle school students and teachers to the University.

In research and development, his contributions go beyond the department and the university. His industrial work has produced deployable solutions to problems ranging from factory-wide processes for large companies such as Dexter Shoe and General Electric to needs of small and one-man start-up companies. He has developed strong relationships with the University Student Innovation Center, the Target Technology Business Incubator, and the Maine Technology Institute, where he sits on the Precision Manufacturing Board.

With his can-do attitude, Bruce helped attract several million dollars in funding from the US Army to build one of the fastest computers in the world from commodity PC parts. As a result, the University ended with a world-class supercomputer center.

Combining his computer engineering expertise and the supercomputing facility, Bruce has collaborated with many researchers interested in computer modeling from a wide variety of disciplines, including Computer Science, Marine Sciences, Chemistry, Physics, Mechanical Engineering, AEW, and many others. Externally to campus, he routinely collaborates with Darling Marine Center, Jackson Lab, Bigelow Labs, Gulf of Maine Research Institute, MDI Biological Labs, Colby, Dartmouth, and Central Maine Heart and Vascular Institute among others. He has acted as PI on two successful NSF proposals totaling over \$2 million in the last two year.

### **Outstanding Research by Young Faculty - Ali Abedi**



Dr. Ali Abedi, Assistant Professor of Electrical and Computer Engineering received the 2008 Award for Outstanding Research by Young Faculty. Ali (shown here with Dean Dana Humphrey and ECE Chair Mohamad Musavi) received his PhD in Electrical and Computer Engineering in 2004 from the University of Waterloo, ranked one in the department based on his GPA, publication record, and numerous awards.

Ali's remarkable achievements during his three years of service at the University of Maine have been extraordinary. While he has established a cutting edge research program in the wireless communications area, he has brought fame to the University of Maine through his

extensive outreach activities and has developed a strong educational core in his area of expertise. Since 2005, he has been the PI on 29 large and small funded projects valued at more than \$2.8M with his share totaling \$1.3M. These projects have been funded by NSF, NASA, Sun, Xilinx, OPNET, Dielectric Communications, Mainely-wired, and Maine Space Grant Consortium. His recent NASA project in the amount of \$1.5M was one of only 12 projects awarded nationally. For his remarkable research capabilities, he has been invited as distinguished speaker to talk at IEEE Montreal Section in Canada, IEEE Dallas Section, Lockheed-Martin Aeronautics, Fairchild Semiconductor, University of Toronto, University of Paris, and several other renowned research institutes around the globe. In addition to the research activities that he has acted as the PI, Dr. Abedi has played a key role in several multi-disciplinary projects on campus including NSF-IGERT on Sensors, NSF project at Biology Department on Insect Behavior, and EEG project at Psychology Department. Dr. Abedi has published more than 25 journal and conference papers in the prestigious IEEE conferences and transactions in Communications, Information Theory, Mathematics and Computer Science.

Dr. Abedi has an outstanding record of service to his profession. He has served as the president of the IEEE Maine Section since 2008 and was the general chair of the IEEE Student Conference and Micro-mouse Competition in 2006, and Chapter chair for Communications and Computer Societies from 2005-8. His efforts have been recognized by prestigious Regional Activities Board Friend of IEEE Award in 2007, and the Best North American COM Chapter Chair in 2007 from among more than 170 chapters worldwide.

Complementing his exceptional research record and public service, Dr. Abedi's teaching is motivational and encourages students to gain in-depth knowledge of materials and continue on to higher education.

### **Former Alumni Inducted into the Francis Crowe Society**

Anthony Paine ('96) is the Executive VP/CTO and Co-owner of Kepware Technologies. Kepware is a Leader in Communications Technologies for Automation. They were recently recognized by the OPC foundation for their contribution to the automation industry.

Tony joined Kepware in 1996 and has been pivotal in the architectural development of all Kepware products, including its flagship product, KEPServerEx. He is responsible for engineering development, quality assurance and customer support. His attention to detail and the engineering process is key to delivering technology that functions broadly across the marketplace.



Tony Paine (left) with Dean Dana Humphrey

Tony is a member of the Technical Advisory Committee for the OPC Foundation where he helps to drive the technical direction of the automation industry. He is also a member of the Department Industrial Advisory Board support. Kepware Technologies supports three UMaine students annually by providing full tuition.

### **Emmy Award Winners Speak to ECE 300 class.**



Mr. Kerry Cozad (middle holding the award) and Keith Pelletier (2nd from left front row) from Dielectric Communications Company gave a presentation to the ECE 300 (senior seminar) class in antenna design and communication area. Dielectric Communications recently won the Emmy Award, shown in the picture, for their work.

### **ECE Professor Chosen to Participate in Fly-by-Wireless Consortium**

Prof. Ali Abedi has been selected by CANEUS International to lead the Passive Sensor Tag Initiative at Fly-by-Wireless Consortium. CANEUS is an international organization dealing with aerospace industry and R&D worldwide.

The [CANEUS Fly-by-Wireless Sector Consortium](#) is chartered to precipitate cooperation and partnerships between industry/government customers, system innovators, and technology developers, while exchanging public and published information on wireless alternatives and new innovations, such as no-power sensor-tag systems. Ultimately, the Consortium's efforts will contribute to minimizing cables and connectors across the aerospace industry by providing reliable, lower cost, and higher performance alternatives for a vehicle's or program's life cycle.

### **Alumni News**

If you have any interesting stories you would like to share with us, please send them to [susan@eece.maine.edu](mailto:susan@eece.maine.edu) with a short paragraph and include pictures if available.

## **Gifts/Donations**

Kenneth and Gweneth Bach \$10,150, Jan. 28  
Kepware, \$5,500, Dec. 31  
Francis & Cynthia Albert \$1,000, Dec. 15  
Carleton & Iris Brown, \$1,000, Dec. 30  
Victor B. Jipson, \$1,000, Dec. 30  
Lawrence Kazmerski, \$1,000, Dec. 31  
Norman B. Stetson, \$1,000, Dec. 31

## **Other Contributors to the ECE Department**

Bath Iron Works	Maurice P. Kinney
John A. Bouchard	Michael F. Knight
Charles E. Cote	Jason R. Lavoie
Louis S. Cotton	Jun X. Li
Christopher P. Foran	Howell McClure
David M. Foster	Anthony F. Paine
Albert H. Huntoon	Christine Palmer
Lawrence A. Hyatt	Arthur C. Ray
Edward E. Johnson	Elaine R. Siegel

## **Grants Received**

A. Abedi, “Mobile Media Antenna Software Improvement, Dielectric Communications,” \$3,760, Jan. 1.

A. Abedi (80%) and E. Besnard (20%), “Wireless Accelerometer Sensors for Vibration Monitoring During Rocket Launch,” NASA, \$40,000, Feb. 2.

## **Other**

Since October the faculty have submitted proposals for a total of about \$2,320,000.