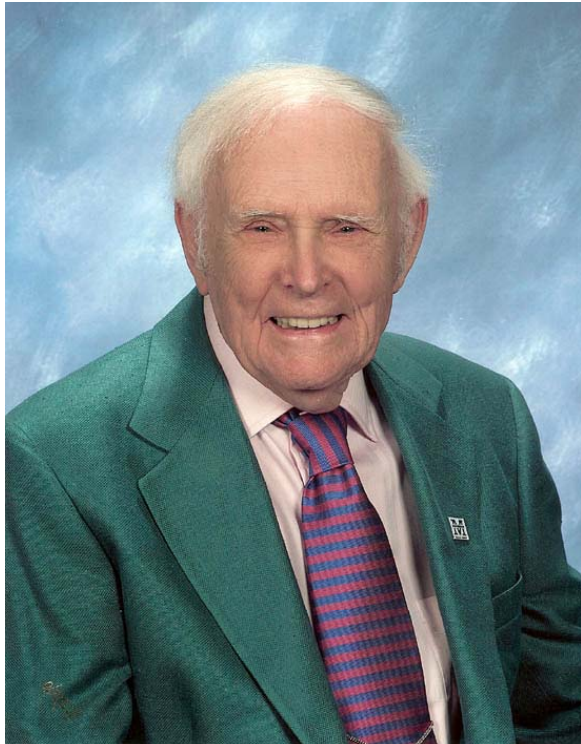




Dr. Waldo “Mac” Libbey Professorship



Dr. Waldo “Mac” Libbey was honored at the Senior Alumni luncheon on October 24 on the occasion of establishing the Dr. Waldo “Mac” Libbey Professorship in Electrical and Computer Engineering with a bequest to the University of Maine Foundation.

Waldo McLure “Mac” Libbey was born in Bangor, ME on July 21, 1922. He was a 1940 graduate of Bangor High School and received his BS from the Electrical Engineering (EE) Department at the University of Maine in 1943. After graduation he was made a faculty member in the EE Department to teach Army students in the “pre-radar” and later the Army Specialized Training Program (ASTP). He later received a master degree from MIT in 1951 and a PhD from WPI in 1969. He was a local expert in the area of electro-acoustics courses, which eventually led to other courses in noise control and environmental acoustics. He was also involved as

a consultant and legal witness in the areas of acoustics and noise control. He was a member of several professional societies including the American Assoc. of University Professors, Institute of Radio Engineers, Institute of Noise Control Engineers, American Society of Engineering Education, and the Institute of Electrical and Acoustic Engineers. He was the first recipient of the College of Engineering prestigious Ashley S. Campbell award for teaching and public service. Professor Libbey served the University of Maine for 46 years until his retirement in 1990.

Aside from his academic life, Mac was always active with the UMaine Alumni Association. However, his one true love was music and theater. He was the drum major of the military band at UMaine during WWII, and later a founding member of the performance group, The Bangor Savoyards. He held many leading roles in several musical comedy productions in Bangor. He received the Francis R. Stanley award for dedicated service as a performer in 1973.

Dr. Libbey has established in his estate plans the Dr. Waldo “Mac” Libbey Professorship in Electrical and Computer Engineering with a bequest to the University of Maine Foundation.



Senior Alumni Luncheon: “Mac” Libbey (center) with some emeriti faculty and wives and present ECE faculty and staff.

Dr. John Vetelino Excellence Fund

Dr. John F. Vetelino, recipient of the 2008 Distinguished Maine Professor has generously donated his award money to the ECE Department. Dr. Vetelino, UMaine Trustee Professor of Electrical and Computer Engineering (ECE) and a founding member of the Laboratory for Surface Science and Technology (LASST) has impacted and transformed the lives of hundreds of undergraduate and graduate students.

Dr. Vetelino has demonstrated exceptional commitment to integrating education and research activities, benefiting several generations of students. He has incorporated state-of-the-art interdisciplinary research topics into more than



six of his undergraduate and graduate classes. The National Science Foundation has recognized Dr. Vetelino's thoughtful and effective approach to education by awarding him more than 25 science education grants to complement his funded research. In addition to an ambitious teaching load, Dr. Vetelino has advised more than 40 M.S. and Ph.D. theses. He is widely valued by his students as a mentor and his students have excellent track records in academia and industry. When asked about their memories of the University of Maine, Electrical and Computer Engineering alumni consistently point to Dr. Vetelino as a driving force in their education and subsequent careers.

The recipient of more than 100 grants and awards totaling more than \$25 million, Dr. Vetelino's devotion and contribution to research is second to none at the University of Maine. An internationally recognized expert on sensor technology, he has published over 200 papers. His research has resulted in numerous patents and the incubation of four small businesses: Sensor Research and Development Corporation, BIODE, Micro Conversion Technology, and Mainely Sensors. These businesses employ talented alumni and serve as an important and visible example of how education and job creation are inextricably linked in our state.

Dr. Vetelino's contributions to undergraduate education extend beyond the University of Maine. His NSF Research Experiences for Undergraduates (REU) program has provided in-depth research experiences for more than 300 undergraduate students, including a significant number of minorities and women. His "*GK-12 Sensors!*" program places UMaine graduate students in middle and high school classrooms to serve as positive role models. Middle and high school teachers work together to develop curriculum modules to benefit secondary school education. His "*RET Site: Sensors!*" program has created intensive summer research experiences and curriculum development activities for more than 30 rural middle and high school teachers on the Orono campus.

[Dr. Larry Kazmerski](#), Director of the National Center for Photovoltaics at the National Renewable Energy Laboratory in Golden, Colorado and former ECE faculty, on the occasion of sharing his 2007 prestigious Karl W. Boer award with the ECE department wrote of Dr. John Vetelino: "there are few people I have met in my life who have been so unselfishly dedicated to students and to research. I have met so many of your (and my) former students who always ask, "How's Vet? Do you ever see him?"

Dr. Vetelino remains an active researcher and teacher at UMaine. To preserve and continue in perpetuity his exceptional level of service, the ECE department is in the process of establishing an excellence fund in his name. We encourage all of our alumni who benefited from Dr. Vetelino's teaching and research training to contribute to this fund honoring a dedicated teacher who has devoted his life in service to his students. Please contact Patricia Cummings, Director of Development for the College of Engineering at pat.cummings@umit.maine.edu or 800-671-7085 for more information.

Thank you ECE Visiting Committee

For many years, the Electrical and Computer Engineering Visiting Committee has given its full support to the department ensuring that our programs meet the standards of excellence. The committee members take two days from their busy schedules each year and travel to the University of Maine campus with their own resources meeting with our faculty and students, reviewing our programs, and providing constructive feedback.

For their service and dedication, we give our heartfelt thanks and appreciation.



Visiting Committee members (l-r) Tony Paine, Kurt Stinson, Dale Flanders, Victor Jipson, Willis Tompkins, Bob Meisenhelder, Wayne Whittier, Bob Gelinas, Roland Gilbert. Also attending but not in photo: Matthew Graf and Steve Waldstein

Dale Flanders – Chief Executive Officer, Axsun Technologies, Billerica, Massachusetts

Bob Gelinas – AMD, Needham, Massachusetts

Roland Gilbert – BAE Systems, Inc., Nashua, New Hampshire

Matthew Graf – Manager, DA Enablement, IBM, Essex Jct., Vermont

Victor Jipson – VP, Adapec, Lincoln, Maine

Bob Meisenhelder – Dir. Gov. R&D Programs, Dir. Univ. Gifts & Grants, Analog Devices, Norwood, Massachusetts

Tony Paine – Executive VP and CTO Kepad Technologies, Portland, Maine

Kurt Stinson – Manager, Elec. Eng. Dept. Bath Iron Works, Bath, Maine
Willis Tompkins – Professor and Chair, Biomed. Eng. and ECE, Univ. of Wisconsin-Madison
Steve Waldstein – Fairchild Semiconductor, So. Portland, Maine
Waine Whittier – Utility Mgmt. Consultant, Energy Advisors, LLC, Vienna, Maine

Other Visiting Committee members who have served in the past and could not be present are:

Murthy Ayyagari – Exec. VP and General Mgr., Newlans, Inc., Acton, Massachusetts
Andres Bryant, IBM Microelectronics Div., Essex Junction, Vermont
Stephen Clukey – Eng. Mgr., Fairchild Semiconductor, South Portland, Maine
Fred Harrison – President and CEO of C & H Technologies, Inc., Round Rock, Texas
Glen Riley – VP of Bus. Dev., TriQuint Semiconductor, Inc., Hillsboro, Oregon
Stephen Swan – Sr. Process Eng. Mgr., National Semiconductor, South Portland, Maine
John Strout – Sr. Process Eng. Mgr., National Semiconductor, South Portland, Maine
Martin Troy – Mgr., Elec/Inst & Hydro, Madison Paper Industries, Madison, Maine

Alumni News

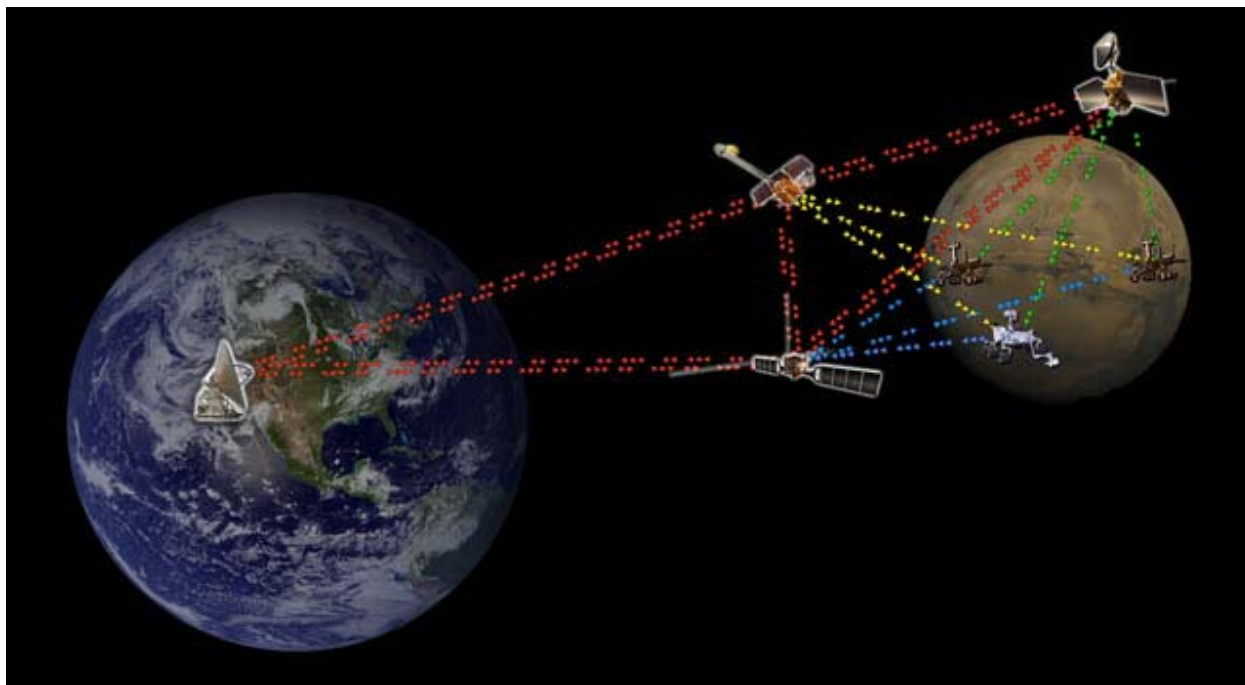
NASA Tests First Deep-Space Internet



[NASA](#) has successfully tested the first deep space communications network modeled on the Internet. Working as part of a NASA-wide team, engineers from NASA's Jet Propulsion Laboratory (JPL) in Pasadena, Calif., used software called Disruption-Tolerant Networking, or DTN, to transmit dozens of space images to and from a NASA science spacecraft located about more than 32 million kilometers (20 million miles) from Earth.

The experiment system administrator and network engineer who worked on this project was one of our former students, Joshua Schoolcraft (BSCEN/EE '05). The experiment was controlled entirely from Josh's lab at JPL.

We congratulate Josh and are proud of his accomplishments.



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

Gifts/Donations

Kepware Technologies, \$5,500, Sept. 22
Dale & Julie Flanders, \$5,000, Sept. 30
Gerald M. Palmer, \$1,000 to Gladys M. & Lloyd C. Palmer Fund, October 9
William G. Stoy and Judith Kenoyer Stoy, \$1,000, October 10
Xilinx University Program, software donation, \$4,985, October 17
Analog Devices \$1,912.25 worth of evaluation boards, October 23
Fred & Sally Irons, \$1,000, November 5
Matt Graff, \$1,500 with IBM match, November 7
Kerry & Pamela Rines, \$1,000, November 12
William G. Stoy and Judith Kenoyer Stoy, \$1,500, November 28
Various other donors \$1,350.00

Publications

Peer Reviewed Journals

J. Chen, A.R. Vaino, **R.L. Smith**, S.C. Collins, "Photomediated Crosslinking of Cinnamated PDMS for In Situ Direct Photopatterning," *Journal of Polymer Science: Part A: Polymer Chemistry*, 46 (11) 3482-3487, 2008.

V.N. Tondare, B.C. Gierhart, D.G. Howitt, **R.L. Smith**, S. J. Chen and S.D. Collins, “An Electron Microscopy Investigation of the Structure of Porous Silicon by Oxide Replication,” Nanotechnology 19(22), article no. 225301, 2008.

Other

Since October the faculty have submitted proposals for a total of about \$403,563.