



ASEE Academy of Fellows Newsletter

May 2011

Message from the Chair

Greetings to you all -

I hope you will be with us at our annual, only "official", activity of the Academy of Fellows. Our breakfast meeting is scheduled this year for Wednesday, June 29, at 8:45 AM in Room 12 of the East Building of the Conference Centre in Vancouver, BC.

If you recall, last year the breakfast meeting time was later than usual through a scheduling change. As a result of this, we had a poll of all the attendees of the meeting in Louisville and the majority opinion was that the later time was preferred over the traditional 7 AM. So, you can sleep in a bit more before coming to the meeting.



This breakfast meeting is a great opportunity for each of us to contact folks with whom we have had many pleasant contacts over the years. For those of us who are retired, this is probably the one time a year we have this chance. It is a grand time! If you are not able to attend, you may have greetings or other comments to have read at the meeting. You can send those to me at lak@ku.edu

2011 ASEE Fellows

We have 12 new Fellows this year! Congratulations are in order to each of them for their contributions to the field.

Dr. Krishna Vedula, Professor,
Chemical & Nuclear Engineering,
University of Massachusetts, Lowell

Dr. Ronald H Rockland, Chair,
Department of Engineering Technology,
New Jersey Institute of Technology

Prof. Carol A. Richardson, Professor Emeritus,
Electrical, Computer, & Telecom. Engr. Technology
Rochester Institute of Technology

Dr. Mary E. Besterfield-Sacre, Associate Professor,
Office of the Dean of Engineering,
University of Pittsburgh

Dr. Larry G. Richards, Professor,
Mechanical and Aerospace Engineering,
University of Virginia

Dr. Linda D. Krute, Director,
Distance Education Programs,
North Carolina State University

Dr. Susan M. Blanchard, Founding Director &
Professor, School of Engineering,
Florida Gulf Coast University

Dr. Kenneth F. Galloway, Dean,
College of Engineering,
Vanderbilt University

As with past Chairs, I want to take this opportunity to ask you again to consider nominating a candidate to be selected as an ASEE FELLOW. Look around at your colleagues --many of them may be most deserving. Two important web sites are: www.asee.org, the ASEE general site, and <http://www.asee.org/activities/awards/fellowNomination.cfm>, the Fellows nomination page.



By the way, the Academy is not involved in the selection of Fellows from among the nominees. The ASEE Board of Directors does that, acting on recommendations from the Awards Board of ASEE. The deadline each year is February 1 – a date that is not flexible.



We will, again this year, meet the newly elected members of the Academy of Fellows plus have the opportunity to hear from the new Executive Director, Norm Fortenberry. As usual, we should hear from two of our own Academy of Fellow members, President Engel and President-Elect Giddens. In addition, I anticipate learning about the progress toward the funding of the Lifetime Achievement Award that Lyle Feisel has been working to develop for the past couple of years.

I hope to see you in Vancouver!

Carl Locke

Dr. Leah H. Jamieson, Dean,
College of Engineering,
Purdue University

Prof. Nancy L. Denton, P.E., Professor,
Mechanical Engineering Technology,
Purdue University

Dr. Jacquelyn F. Sullivan, Associate Dean for
Inclusive Excellence,
Office of the Dean of Engineering,
University of Colorado, Boulder

Dr. Ray M. Haynes, Director,
STEM Integration,
DaVinci Charter High Schools

We will have the privilege of welcoming this group of outstanding engineering educators at our Wednesday breakfast meeting in Vancouver. Congratulations to all.



Mark Your Calendars

2011 Annual Conference of ASEE: Vancouver, BC, Canada, June 26-29, 2011. **Plan to be there!**

Future Annual Conferences:

San Antonio, TX, June 17-20, 2012
Atlanta, GA, June 23-26, 2013
Indianapolis, IN, June 15-18, 2014
Seattle, WA, TBD, 2015.

College Industry Education Conference.

Orlando, FL, February 1-3, 2012
Phoenix, AZ, February 8-10, 2013

Engineering Deans Institute (EDI)

Kauai, HI, April 13-19, 2012

Engineering Technology Leadership Institute

Texas A&M - November 4-6, 2011
North Carolina A&T, 2012
University of Houston, 2013
Kent State, 2014

Global Colloquium on Engineering Education:

Shanghai, China, October 24-27, 2011

International Congress on Engineering Educ

Kuala Lumpur, Malaysia, December, 7-8, 2011.

For additional info, visit: www.asee.org

Opportunity to Contribute

It is not too late to make a contribution in support of the **Lifetime Achievement Award**. To provide confidentiality, gifts and pledges should be sent to ASEE, PO Box 18056-A, Ashburn, VA 20146. John Weese chairs this committee, which includes a number of other Fellows.



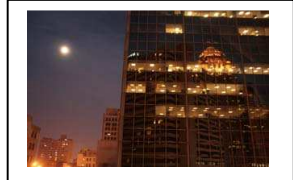
News from the Flock – Spring 2011

We had a great response from the recent request for news sent to Fellows by email. Below are excerpts of those for your reading pleasure.

Fellow **Bob Mott** and his wife Marge celebrated their Golden Wedding Anniversary in April 2011 in Dayton, Ohio. Bob Mott is retired from the University of Dayton and works with the Society of Manufacturing Engineers and the NSF-sponsored National Center for Manufacturing Education in Dayton, Ohio. One project of the SME Center for Education and SME's Manufacturing Education & Research Community is called The Four Pillars of Manufacturing Engineering that is designed to be a tool for enhancing the manufacturing knowledge and capabilities of engineering and engineering technology graduates in manufacturing-named programs and in those from which a sizable number of graduates enter careers in the manufacturing and production engineering functions of industries in North America. Questions and comments about how the message can be promulgated among educators in mechanical, electrical/electronic/computer, industrial, materials, automotive, and other related areas are welcome. Contact Bob Mott at lmott@ameritech.net.

Just two items about me that you may wish to include. One is that I will be retiring effective September 1 as Dean of the College of Applied Science and Technology at Weber State University after 21 years in the position. The other is that I will be finishing my term as Chair of the Technology Accreditation Commission of ABET in July. See you in Vancouver. **Warren Hill**

I was inducted into the University of Cincinnati Co-op Hall of Honor on February 17, 2011. The purpose of the UC Cooperative Education Hall of Honor is to create a permanent tribute to those special individuals and organizations that have made a significant qualitative difference in the advancement of cooperative education at the University of Cincinnati and beyond. I won't make Vancouver though I would really like to attend. Hope to make another ASEE annual conference soon. Best to all ASEE friends. **Luther Epting**



I just returned from Santa Fe, New Mexico, where WPI operates a site for our Interactive Qualifying Projects. These projects are a graduation requirement. They relate some aspect of technology to society, and get students out of the classroom and into the community. Over half of our students complete these projects at residential off-campus sites – as far off campus as Namibia and South Africa, or as close as Boston. We had 24 WPI students in Santa Fe for the second half of the spring semester, pursuing projects ranging from the restoration of the Santa Fe river to increasing ridership on the local bus system by the use of smartphone applications. As one of their advisors, I lived in Santa Fe with the students. It was a great experience for me, and also for the students. Also, I just learned that I will be receiving the ASEE ECE Distinguished Educator Award for 2011 at the ASEE conference. I am extremely honored by this recognition. I look forward to seeing you and the others in Vancouver! Best wishes, **John A. Orr**, WPI, Worcester, MA



Dr. Ramesh Agarwal, Fellow ASEE has recently been honored by two awards:

AIAA 2011 Thermophysics Award: This award is presented for an outstanding singular or sustained technical or scientific contribution by an individual in thermophysics, specifically as related to the study and application of the properties and mechanisms involved in thermal energy transfer and the study of environmental effects on such studies and mechanisms.

ASME 2011 Edwin F. Church medal: The Edwin F. Church Medal is awarded to an individual who has rendered eminent service in increasing the value, importance and attractiveness of mechanical engineering education.

Dr. Michael O'Hair retired from Purdue University on May 15, 2011, after 43 years of service. He is now officially Professor Emeritus of Electrical and Computer Engineering Technology. He served as Director of the College of Technology at Kokomo for thirty-one years and Associate Dean for the College of Technology for seven years. He and his wife Sharon plan to spend more time with family (including four beautiful granddaughters), more swimming pool time, golf, reading (non-engineering books), and travel. They will be leaving for a 14 day tour/cruise to Alaska right after the Fellows Breakfast in Vancouver. They both look forward to attending ASEE Annual Conferences in the future to renew ASEE friendships made over the years.

Frank: Unfortunately I will not attend the Conf. Please give my regards to all. **Angie Perna**

I continue in my role as Director of U.S. DOT's University Transportation Centers (UTC) Program and have announced my intention to retire from Federal service on December 31, 2012. Since January, I am also currently Acting Associate Administrator for Research, Development, and Technology of the Research and Innovative Technology Administration. During May - August 2010, I served as Acting Director of DOT's Transportation Safety Institute in Oklahoma City while also carrying out my UTC Program duties. I enjoy my work very much, in large part because of the many wonderful people with whom I work. Kathy and I have a small apartment on Capitol Hill in DC (two blocks from the Library of Congress) and our "retirement house" in Newark, Delaware near the University of Delaware campus. I commute by Amtrak from DC to Newark (pronounced "New Ark") on Friday afternoons and return to DC on Sunday nights most weekends. Our fourth grandchild is due in September in Blacksburg where our son-in-law is working on his doctoral degree in entomology at Virginia Tech, Kathy's and my Alma Mater. Best wishes to all! **Curt Tompkins**



We are now in our second year at Skyline at First Hill in Seattle and enjoy both the easy access to downtown Seattle and our release from home/garden maintenance. The photo is of my wife, Priscilla, and me. We recently returned from a cruise on a yacht in the Cyclades. Prior to flying to Athens, we stopped for a few days in London. We arrived in London on April 29th but alas were not invited to Willy's wedding to Kate. Our trip had been scheduled and booked long before the future king and queen announced their plans. Unfortunately as our hotel was within the area cordoned off by London police, we had an unusually prolonged ride from Heathrow to the Royal Automobile Club. Our plane arrived at about 10:00 AM; we checked in at the RAC at 6:00 PM. We did leisurely lunch at the Covent Garden Hotel, a short distance north of Picadilly Circus, and waited there until the police lines were removed. **Ray Bowen**

When I went to work as Interim Executive Director of ASEE last Fall, it was suggested that I had flunked retirement. I insisted that I had only received a D minus which allows me to take the final exam again. I am pleased to report that I have done so and this time passed with flying colors. As everyone knows, Norman Fortenberry became Executive Director on May 1 and I re-retired. Dorothy and I enjoyed living in DC for a few months and I hope I was able to make some contribution to ASEE during that time. Now we have moved back to the Eastern Shore of Maryland where life is simpler and the traffic much more to our liking. I hope to see you all in Vancouver. **Lyle Feisel**

My wife, Janell, and I are currently in Singapore at the National University of Singapore where I am team teaching a BYU Study-abroad course in the Fundamentals of International Product Design and Development. We have students here from BYU, Penn State and a number of Asian countries. This is our third year doing this and it has been a fascinating experience to try and help prepare our students to become leaders in what's happening in product design and development as a result of globalization. We have visited a number of companies in the San Francisco Bay area on the way here including IDEO, the Stanford Product Realization Lab and Zircon as well as companies in Singapore, in addition to the coursework of international product design and development.

Earlier this spring during the first week of May, I also had the privilege of being with my FSAE-Hybrid team as they won 2nd place in the Society of Automotive Engineers/IEEE Formula Hybrid Collegiate Design competition with the vehicle they designed and built from the ground up. Texas A & M won first place overall. BYU's team won first place in the endurance race and 1st place in the Business Plan competition as well as 3rd place in design. They designed an open wheel gasoline/electric hybrid vehicle that weighs about 580 lbs and goes from 0-60 mph in less than 3 seconds using lithium-polymer battery technology and a new 55 lb electric motor from YASA Oxford in England.

I seem to always learn more from my students than they learn from me and it is a great privilege to work with them, no matter what the project, research topic, or learning subject. It is a great privilege to be a teacher and learner! I look forward to being with each of you at the upcoming ASEE conference in Vancouver! Sincerely, **Bob Todd**, Brigham Young University



Vince Poor of Princeton University was elected to the National Academy of Sciences (NAS) at its annual meeting on May 3, 2011. At Princeton, Vince is Dean of the School of Engineering and Applied Science, and the Michael Henry Strater University Professor of Electrical Engineering. In addition to the NAS, Vince is also a member of the National Academy of Engineering, the American Academy of Arts & Sciences, and the Royal Academy of Engineering of the U. K. An ASEE Fellow since 2003, he is also a Fellow of the IEEE and other scientific and technical organizations. Other recognition of his work includes a Guggenheim Fellowship in 2002, the 2005 IEEE Education Medal, 2010 IET Ambrose Fleming Medal, the 2011 IEEE Eric E. Sumner Award, and an honorary doctorate from the University of Edinburgh, awarded in June 2011.

I don't often miss the ASEE meeting, but I will this year. Also, I don't often have the opportunity to celebrate my 60th wedding anniversary. This year our 60th wedding anniversary conflicts with the ASEE meeting, so Joanne and I will not be in Vancouver. Normally, we would just come to the meeting and celebrate there, but we are planning a major family reunion involving children, grandchildren, siblings, nieces and nephews and even a couple of grand nephews and other assorted relatives. In all we will have relatives from 13 states if I count correctly. We will be at a Lodge in Southwest Missouri near where Joanne and I were born, the same place where we celebrated our 40th and 50th. We have embarked on a project to complete a memoir on our lives during the 60 years of marriage and even our individual lives before we met. We are each individually writing our own version, so it may prove interesting! This is a project we are doing for our family. I regret not being at the Academy of Fellows breakfast, but look forward to seeing all of you in 2012. We hope you have a good meeting and enjoy beautiful southwest Canada. Joanne and I continue to do well and stay busy. **Ernie Smerdon**, ejsmerdon@yahoo.com

Our big news is that we just purchased a condo in Naples, Florida! Will be spending around 5 months a winter there! So, in Maine we will be labeled "snow birds". Take care, **John McDonough**

Three years after I retired, I was asked to return as Dean at University of Cincinnati - Clermont College for six months. After two and one half years at that position, I have once again retired. I plan to get it right this time. I think it is odd that my brother John began his academic career in an engineering technology college and I began at an engineering college. In retirement, the roles have been completely reversed! I think back to the paper we wrote together about the future of our respective colleges. I often think of my ASEE friends and miss them. My church has discovered my availability and assured me that I would not be bored in retirement. We are in decent health and spend our free time attending functions of our thirteen grandchildren (soon to be fifteen). **Jim McDonough**

Ever had low back pain? Then you've had a glimpse into the current research of ASEE Fellow **P.K. Raju** of Auburn University. P.K.'s recent project, "A New Method to Assess a Lower Back Pain Treatment using Vibration Measurements" was conducted with chiropractor Gregory Cramer and other colleagues at the National University of Health Sciences in Chicago, Illinois. The project developed a method to determine the best lower back pain treatment using the vibrations created when a chiropractor performs cavitation--or "pops" your back. That "pop" is called cavitation, and this project developed a new way to devise a treatment plan by measuring those vibrations.

I unfortunately will not be attending this year's conference. My wife's parents are celebrating their 50th anniversary and my presence is necessary. I will see you next year! Regards, **Duane Abata**



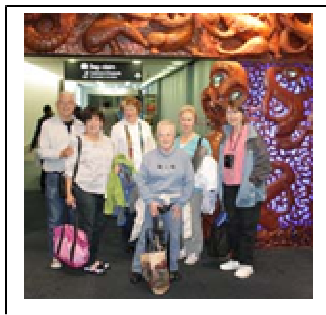
Frank: As usual, I am behind the power curve. The **Hanemans** planned a trip to the east (?) of the Panama Canal but I got Bronchitis and we had to give it up. We are headed to Daytona this month; to Sea Island in July and to London for a 14-day cruise to Monte Carlo in August. This should wear us out. It has been so hot here in Columbus that the eggs in the bird nests are cooked. Hope all are well. **Vince & Barbara**



Enabling Engineering Student Success is a new report released by the Center for the Advancement of Engineering Education (CAEE) at the University of Washington. It addresses the challenges in preparing today's science and engineering students with the skills and experiences needed to solve problems and generate technological breakthroughs if the U.S. is to remain a global economic leader.

The report provides a detailed description of the engineering undergraduate learning experience and identifies opportunities for improving how engineering students are currently being prepared for professional practice. The full report is available for download from the CAEE website at www.engr.washington.edu/caee/.

Additional information may be obtained by contacting **Cynthia J. Atman**, Director of CAEE and Professor of Human Centered Design and Engineering at the University of Washington (atman@u.washington.edu, 206-616-2171) (and ASEE Fellow).



Your Newsletter Editor spent a week of February in Florida and a week of March in a watercolor workshop, hopefully to become a better 'watercolorist'. Three weeks in April were spent traveling in New Zealand, Australia, and Tasmania. The other week in April was spent in Key West. The other major activity of the late spring has been 'orientalizing' our front yard, which is still underway. Plans are to take a two-week trip with a friend following the ASEE Conference in Vancouver and see some of the sights in British Columbia, Washington, and Oregon. Recent sightings: While in Florida, we visited Fred and Nancy Emshousen in their new house at West Rotonda. **Frank Gourley**

In Memoriam



Sudhir Mehta, 59, died August 8, 2010 in India after suffering a heart attack. Mehta, who had worked for NDSU since 1984, is credited with helping increase NDSU's international student population, which is more than 1,200 students. For the past few years, Mehta was based overseas to recruit students and develop agreements with institutions in India and other countries in Asia. Mehta joined the NDSU mechanical engineering faculty in 1984, and was named associate vice president in 2002. Mehta received many honors, including being named North Dakota Professor of the Year in 1997 by the Carnegie Foundation.



Dr. Elmer Laverne Hixson passed away on February 10, 2011. He was born on September 29, 1924 in Arlington, CA. He was a member of the faculty in the EE Dept. at UT-Austin where he taught for 37 years during which he received several teaching awards. He became a Professor Emeritus in 1997, but continued to teach graduate students and perform research in Acoustical Engineering until his health failed in 2010.

Reminder about the Fellows Website

Is there a long-lost Fellow you haven't seen recently with whom you would like to be in contact? Well, now you can get contact information on that person at the Fellows website. Log in at www.asee.org/activities/organization/fellows. On the left side, select **Fellows Contact Info**. Enter your username and password, do an alpha search for the individual you want to contact, click on the plus (+) sign, and write down the contact info you need. (Thanks to Dwight Wardell, and the IT Department, at ASEE.)

Additional Fellows Photos and Info

Photos of Fellows, and additional info about the Fellows, may be found at the ASEE website – [asee.org](http://www.asee.org). Select Member Activities and Academy of Fellows (on left). Options here include: Fellows (alpha list of Fellows with affiliation and induction year), Newly Elected Fellows (photos), Officers, Meeting Minutes, and Fellows Newsletters (past).

- Frank Gourley, Newsletter Editor

Reduced Membership Dues Reminder

If you are retired, or if you have 'been around' long enough, you might qualify for reduced, or no, membership dues as a **Retired or Life Member**.

For professional members who have **retired** from full-time employment, dues are \$30/year. Members whose years of age plus years of continuous paid membership in ASEE totals 100 or more, upon application to and approval by the ASEE Board of Directors or the Executive Committee of the Board of Directors, become **Life Members** and pay no dues. (Dues: \$0.) **Life Members** pay a nominal registration fee for the Annual Conference. **Retired Members** receive a 50% discount on registration. All members pay for ticketed events.

Check out the Membership web pages of the ASEE website for additional information and a copy of the one-page application form, or call the ASEE Membership Department for additional information.

ASEE ACADEMY OF FELLOWS ANNUAL MEETING

Wednesday, June 29, 2011; 8:30-10:15am
Vancouver, BC

Tentative, Preliminary Agenda

Subject to Change with, or without, notice

1. Call to Order with the *Bill Wilhelm* Gavel
2. Recognition of ASEE Officers attending
3. New Fellow Introductions
4. Not-so-New Fellow Introductions
5. Greetings from Absent Fellows
6. Recognition of Breakfast Sponsors & ASEE Staff Who Helped During the Year
7. ASEE President-Elect Comments - Don Giddens
8. ASEE President Comments - Renta Engel
9. ASEE Executive Director Comments
10. Report on Lifetime Achievement Award - Lyle Feisel for John Weese
11. Old Business - if any
12. New Business - if any
13. San Antonio, Texas - June 13, 2012
14. Photos of New Fellows and Award Recipients
15. Adjourn



Photo Credits

Frank Gourley took the photographs used in this issue at the 2010 Academy of Fellows meeting in Louisville, except as noted (or obvious). Clarity of the photos was reduced to keep the Newsletter file size low (quicker upload time).

Academy Officers and Editors

Carl Locke, Chair, lok@ku.edu

Bill Wilhelm, Past Chair, billwilhelm1@cox.net

Mary Anderson-Rowland, Secretary, Vice Chair, and Chair Elect, mary.anderson@asu.edu

Frank Gourley, Newsletter Editor, fgourley@wvutec.edu

This is being emailed to those for whom we have an email address. If you received a print copy of the Newsletter and have an email address, please let me know (it will save some pocket change -- ~\$1.00/Fellow/ issue). - Thanks, Frank.