

Corporate Member Council Newsletter

November 2006

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Dr. Ray Morrison

Message from the Council Chair

By Dr. Ray Morrison

The Quarter began rapidly with many things on our plate since I last reported to you. The Corporate member Council has been actively developing its end of year Symposia to take place in December. December 4 through 6 to be exact! We have several important items to work on at the Symposia; First and foremost to have Dr. Craig Barrett of Intel Corporation and the Chair of the NAE Council & Member of the "Rising Above The Gathering Storm" Report to present his stand on the report and the opportunity for us to discuss our support or concerns. Each of the Special Interest Groups will have a separate session to allow the participants to discuss their issues and objectives for the New Year – 2007. I intend for the Symposia to present three results for the CMC; one will be to determine the proclamations we wish to support, the recommendations we wish to make, and the objectives that we wish to establish for the 2007 period of our operations.

With this Newsletter, I have asked Sam Truesdale to include the CMC Symposia material that I sent out earlier last month with the reminder that if you have not registered by November 1st, you're late and should contact Joe Tidwell as soon as possible to assist you in getting registered.

As Chair of the CMC I had two distinct honors this month. I served as a member of the "Project Lead the Way" Advisory Board for their annual meeting in Bolton Landing, NY, and was asked to represent the ASEE as Chair of the National Standards Meeting by the National Association of State Directors for Career and Technical Education. As the Chair, CMC had a strong position in this activity and representation in supporting the development of the new K-12 Engineering Standards for the STEM movement in the US. Many of our member Companies were well represented by HP, DuPont, Lockheed Martin, Northrop Grumman, Rolls-Royce, Intel, and many others. Many of the major Universities and the societies were also in attendance. The meeting was successful from the point of view that we got a great start and put 12 specific standards into place for discussion and debate. We were able to construct standard statements for both knowledge and performance with several contextual support statements. This material will be discussed at the Symposia in December so that we can debate them and collect more input and direction.

Message from the Council Chair continued

By Dr. Ray Morrison

Our "system of systems" has been fostering further development of the Engineering fields for service to Industry and has become an important part of our programs especially the discussions of the SIG's, their progress, and the SIG's focus on their desires and requirements of the CMC. ASEE President, David Wormley has designated this the year of dialog and we will definitely fill that requirement. To fulfill some of that dialog, I was invited to serve on a panel at the Engineering Technology Roundtable in Salt Lake City. This opportunity gave me the platform to discuss the Isadore Davis Collaboration Award and the importance of the four Councils to work together toward overall collaboration in the ASEE name. David Wormley was in attendance at that Roundtable and added his support to the CMC activities.

Our Programs for the CIEC and the Annual Conference are well on their way to fruition as we continue our support for the College Industry Partnership (CIP) Division and the Continuing Professional Development (CPD) Division, the Graduate Studies Division (GSD), the Engineering Technology Division (ETD), and all of the Institutional Councils. We continue to strive for improvement in our programs and the engineering education process and will provide assistance to our friends in the various fields as long as they are willing to hear our opinions.

I want to acknowledge the work of our new membership chair and his committee. They have been doing a wonderful job of soliciting the attention of our membership, updating the list and getting them involved in the activities of the SIG's as well as the other committees. My hat is off to Pete Janzow for his enthusiastic and meaningful work.

I also want to extend my appreciation to Mark Stratton who has continued to work hard as the Archivist and Webmaster to keep our web site up to-date and as current as he can with the assistance of the ASEE Staff.

My thanks go out to Joe O'Brien and Letha Hammon who continue to forge on for the CMC programs at the two future conferences. That goes for the times when I step in and mess things up. They have been very understanding and I appreciate that!

Joe Tidwell is doing a great job of preparing for the Symposia and our appreciation goes out to the ASU Polytechnic – East Campus for their understanding as he works to make this event a success.

Thank you, to each and everyone who has extended their assistance to me as Chair so far this year and I am looking forward to their assistance in the coming year as we ready ourselves for CIEC in Palm Springs, CA and the ASEE Annual Conference in Honolulu, Hawaii. We will do well and we will definitely make a difference, especially with your help.



The Corporate Member Council Leadership Symposia

By Joe Tidwell

The Corporate Member Council Leadership Symposia will be held at The Arizona Golf Resort and Conference Center, 425 South Power Road, Mesa, Arizona 85206 on December 4th, 5th, and 6th, 2006.

The CMC Leadership Symposium Agenda:

Monday, December 4th, 2006

This is travel day for most of the participants.

- 6:30 PM – Reception (Greeting and meeting the participants)
- 7:00 PM – Dinner (maybe under the stars)

Tuesday, December 5th, 2006

- 7:00 – 8:00 AM – Executive Continental Breakfast
- 8:00 – 8:30 AM – Welcome & Agenda for 5th & 6th Review -Dr. Ray Morrison, Chair of CMC, Lockheed-Martin Aeronautics Company
- 8:30 – 10:00 AM – Dr. Craig Barrett, Chair of NAE Council, & Chair of INTEL Corp.
 - “What Does the “RAGS” Report Mean to Industry?
 (“RAGS” = Rising Above the Gathering Storm)
- 10:00 – 10:15 AM – Break with morning refreshments available.
- 10:15 – 12:00 Noon - The Special Interest Group on Diversity in Engineering, Industry & Education; SIG Chair - Dr. Ray Haynes, NGC
- 12:00 – 1:00 PM – Lunch – Outside on Patio by the Pool.
- 1:00 – 2:30 PM - The Special Interest Group on Intellectual Property in Engineering, Industry & Education; SIG Chair -Joe O'Brien, HP
- 2:30 – 4:00 PM - The Special Interest Group on the K-12 Pipeline, Industry & Education; SIG Chair - Richard Blais, PLTW
- 4:00 – 4:30 PM – Break with afternoon refreshments.
- 4:30 – 6:00 PM - The Special Interest Group on the National Collaborative for Graduate Engineering Education Reform (The Issues and Accomplishments); SIG Chair - Dr. Donald Keating, University of South Carolina
- 7:00 PM – Dinner at the Resort (location to be announced.)

Wednesday, December 6th, 2006

- 7:00 – 8:00 AM – Executive Continental Breakfast
- 8:00 – 9:30 AM - The Special Interest Group for Engineering, and Technology Councils and Society Liaison; SIG Chair - Dr. Pat Fox, Purdue University
- 9:30 – 9:45 AM – Break with Morning Refreshments
- 10:00 – 11:45 AM - Developing the Resolutions, Proclamations, Targets, and Objectives for the CMC and the Year 2007 – Dr. Ray Morrison and the SIG Chairs
- 12:00 – 1:00 PM – Lunch – Location to be determined.
- 1:00 – 3:00 PM Tour of Arizona State University Polytechnic Campus, Host by Dr. Al McHenry, VP & Provost & Joe Tidwell
- 3:00 – 3:00 Pm Adjourn & Return to Resort for return home outside of the room on the patios.



Joe Tidwell



Any questions or for further information about the rooms and the resort contact Joe Tidwell at (480) 727-1512 or E-mail: joseph.tidwell@asu.edu

National Learning Standards for K – 12 Engineering Educations

By Ray Morrison and Richard Blais



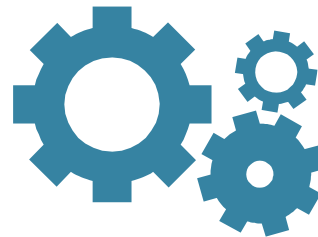
Richard Blais

In a relatively short time, engineering education has become a significant part of American curricula in the nation's schools, yet no national standards for pre-college engineering education exist. National learning standards guide instruction in K – 12 science, mathematics and technology education, but not in engineering. This noticeable absence is at a time when a valid set of comprehensive and rigorous learning standards for K – 12 engineering is most needed.

Through a partnership between the CMC & the National Association of State Directors of Career and Technical Education Consortium (NASDCTEc), Project Lead The Way was asked to coordinate and facilitate a committee for the development of the K-12 engineering/engineering technology standards with vested stakeholders for the pre-college program.

Representatives from business and industry, higher education, government, engineering organizations and societies, and K – 12 gathered in Baltimore, MD to develop these vitally needed learning standards. This diverse and informed development forum included representatives from the Corporate Member Council (CMC) of ASEE (Chair of the Committee), Duke University, the University of Maryland Baltimore County, Purdue University, St. Louis Community College, and from ASEE, AAES, NAE, NAMEPA, NAPE, NASA, and SME. In addition, the group included representatives from national teacher education associations for science, mathematics, and technology education and other national STEM programs.

A presentation at the CMC Symposia will review the work of the team that developed the K-12 E/ET learning standards and an open dialog will result.



Special Interest Groups News

By Ray Haynes

ASEE CMC member companies and individuals remain very proactive in national diversity initiatives at universities and professional organizations including conference sponsorships, presentations, workshops and award winners.

- AISES conference on November 2-4 in Detroit where Ray Haynes of NGC was presented the Executive Excellence Award. Other award winners were from Intel, and LMCO/Sandia.
- HENAAC conference-October 2-5, Anaheim. See www.henaac.org for list of awardees including folks from Boeing, LMCO, NGC, etc. HENAAC also released a report on Hispanic diversity workforce futures.
- NAMEPA elects new president and leadership team. See www.namepa.org or contact current president Carolyn Vallas at University of VA (cv5d@cms.mail.virginia.edu) for details. All NAMEPA members have received invitation to attend and participate in the 2007 CIEC conference in Palm Springs.
- NAMEPA Region E 2006 workshop was hosted by Cal Poly Pomona on November 17-18. Contact new MEP Director Milton Randle or Corp. Relations Director, Chuck Varela at cdvarela@csupomona.edu for details.
- NSF selects Dr. Mary Juhas from Ohio State University as new Engineering Diversity Director in the Engineering Directorate, she reports to Engineering Director, Richard Bukius. Contact Mary at juhas1@osu.edu or after November at mjuhas@nsf.gov.
- MESA is a primary partner in the Department of Labor WIRED grant via the California Space Authority \$15Million award. Details at www.mesa.ucop.edu or contact Mike Tomasello at michael.tomasello@ucop.edu.
- NGC has begun discussions with new Dean Peter Crouch at University of Hawaii-Manoa to develop a diversity-oriented workshop following the 2007 ASEE Conference in Honolulu. The K-12 Workshop will be done as a pre-meeting event as before. (Peter was formerly Dean of Engineering at Arizona State University.)



Ray M. Haynes, Ph.D.

Upcoming Events

The National Collaborative meeting at Purdue	November 20
CMC Leadership Forum in Mesa, AZ	December 4-6
CIEC 2007 in Palm Springs, CA	February 6-9

You are invited to join your friends and colleagues by attending and participating in

2007 Conference for Industry and Education Collaboration

Collaborating to Build Innovative Generations

Hilton Palm Springs Resort
Palm Springs, California
February 3-10, 2007

2007 CIEC organized by CED, CIP, CPDD and ETD

Collaborating to Build Innovative Generations
Conference for Industry and Education Collaboration ■ February 3-10, 2007

<http://www.asee.org/about/events/conferences/>

Editor's Corner

By Samuel Truesdale

I am looking forward to working with the team to foster, encourage, and cultivate the dialogue between industry and engineering educators and seeing you all at the CMC Leadership Forum and the 2007 CIEC. More information on the 2007 CIEC "Collaborating to Build Innovative Generations" can be found at <http://www.asee.org/conferences/ciec/2007/index.cfm>.

I hope that you enjoyed this edition. Our next publication deadlines will be March 1, 2007 and November 1, 2007. If you would like to have an article featured in our next publication, please send me your input two weeks before the deadline so that it may be included.

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Samuel Truesdale