Conferences...Conferences !!!!!!

CIEC 2007 Palm Springs!!!!

What a conference! - Details inside.

ASEE 2007 Honolulu!!!!
Great things on the docket.
Still time to register!

Special points of interest:
- CIEC—Palm Springs, CA
- Alvah Borman Award
- Student of the Year
- Chairs’ Messages
- Lou Takacs Award

Newsbriefs
Spring/Summer 2007
http://www.profpractice.gatech.edu/ced/
Chair’s Message

It is an honor to serve as the Chair of CED this year. I follow in the footsteps of many fine people who have served in the Chair’s role. Like my predecessors, I will work hard to make a contribution to the organization.

I look forward to working with the CED Board and the membership, and in fact, work is already underway. A few current activities include 1) Maureen Barcic leading the effort to add a membership directory and a downloadable CED brochure to the website, 2) Mieke Schuurman reviewing proposals for funding one or more research grants, 3) Catherine Rooney coordinating the program for next year’s conference in New Orleans and 4) Craig Gunn coordinating CED sessions and a distinguished lecture at the ASEE conference in Honolulu in June. These are just a few of the many activities currently underway.

Although it’s months away, keep in mind that our next annual conference, CIEC, will be held February 13-15, 2008 in New Orleans, Louisiana. CIEC was originally scheduled for New Orleans in 2006 but was postponed due to Hurricane Katrina.

The conference will be held at the Hotel Monteleone. The conference planning team has met at the hotel several times and has let us know that it is a beautiful facility in the heart of the French Quarter. I am looking forward to the conference for several reasons. I am of course looking forward to the camaraderie and professional development with my friends and colleagues, but also to enjoying the wonderful food and music of the region. In addition, I must say that I am also very pleased that the conference is being held in New Orleans because it will help to make an economic contribution to the city and its people as it continues to recover from the effects of the hurricane.

As we move toward our annual conference, I encourage our members to get involved with CED. There are many options such as joining a committee or presenting a conference session. By taking an active role, you will get to know the people and the organization’s activities first-hand. I can tell you from personal experience that I have benefited greatly from participating and getting to know my colleagues on both the education and employer side. I can also say that the willingness of the members to help and support each other has been an outstanding attribute of both the association and its people.

Finally, CED is such an outstanding group of individuals, I would really like to see our membership and conference attendance increase. An increase in both of these areas is an important goal I have set for the coming year. So what can you do? Help us spread the word to our colleagues about the benefits of joining and participating in CED.

As Chair of CED, I welcome your questions or comments. Please feel free to contact me at anytime. My phone is (512) 475-6179 and email is easterlin@mail.utexas.edu.

Best wishes.

Ray Easterlin, CED Chair
COOPERATIVE EDUCATION DIVISION/ASEE EXECUTIVE BOARD ROSTER 2007 - 2008

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Sean McCue  Dupont / Industrial  2009
Stacey Givens  Adtran / Industrial  2009
Brian Dansbury  University of Cincinnati / Academic  2010

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PAST CHAIR’S MESSAGE

During the past year, the CED board has worked to strengthen its membership, collaborate with other organizations and to advance the cause of engineering co-op in the U.S.

One of the first activities of the year was to begin collaborating with ASEE’s Commercial Advertising Managers, Mike Sanoff, to leverage our combined interest in increasing employer participation in both CED and ASEE. At the urging of Sean McCure, Mike proposed to CED that we join forces with ASEE to reach corporate HR managers and link them with the engineering “career managers” at each campus through participation in ASEE sponsored conferences. Four proposals were discussed by the Executive Committee and Mike Sanoff:
1. CD’s of CED Directory could be sent to ASEE corporate members;
2. ASEE would set up a members-only access to the CED Directory;
3. CED might be able to write a monthly column in Prism;
4. CED member schools might be asked to share employer contacts with ASEE marketing.

It was decided that Mike Matthews would send the CED Directory (in CD format) to Mike Sanoff for the first stage of the project, and that the Board would explore the possibility of a monthly column in Prism Magazine.

In addition to CED’s substantial presence at the Centennial Celebration of Cooperative Education in Cincinnati at the CEIA annual conference, the chair and chair-elect of CED participated in the annual Co-op Leadership Summit in Boston on August 17, 2006. The organizations represented were the Cooperative Education and Internship Association, CED, the National Commission for Cooperative Education, the Canadian Association for Cooperative Education, the Accreditation Council for Cooperative Education, and the National Society for Experiential Education. It was agreed that the three shared goals of the organizations are:
1. re-establishing relationships with the federal government;
2. promoting research in the field of co-op, internships and experiential education;
3. developing a pipeline of new professionals for the field.

All of the participants agreed to return to their prospective organizations with a commitment to work toward these goals and to continue the process of dialogue to share successes and best practices.

CED’s commitment to the advancement of engineering co-op is an on-going process that was moved forward during this past year, but it is one that needs constant improvement. The November meeting of the CED board recommended that more and better ways of marketing co-op and CED membership to potential members, as well as strengthening the relationship with current members be developed. The following items were discussed, and represent unfinished business of this year’s board:
1. creating new incentives for employer membership, such as a free first year of membership and the addition of a supervisor of the Year award;
2. developing a full packet of membership materials that would be sent to each new member;
3. providing greater content on the CED website for professionals, including FAQ’s, research data, and a knowledge management database covering issues of concern to employer and college co-op personnel;
4. reaching out to engineering schools through the ABET structure and making them more aware of the value of co-op evaluations for the accreditation process.

The efforts to strengthen membership, collaborate with colleagues and advance cooperative education will never be completely finished, but the board has taken significant steps during the 2006-07 year to continue the process. We look forward to working closely with the new board for another good year.
Helen Oloroso
CIEC 2008
“Securing Our Engineering Future”

Mark the 12th through the 15th on your calendar in February 2008—New Orleans. The Monte Leone is ready to make your stay in New Orleans an adventure in the rebirth of a city. Plan to learn from the great CIEC sessions and experience a New Orleans just waiting to make your stay something to remember.

2006 CIEC/CED Award Winners

Presented at
CIEC 2007 Palm Springs

Best Session: “The Futurist”
Presenter: Phil Gardner, Michigan State University

Best Speakers “Socialization of Undergraduate Students into Professional Industrial Settings through a Cooperative Education Program”
Presenter: Chris Plouff, Grand Valley State University

Best Moderator: “Collaborative Teamwork with Industry II” - Joint Session with Engineering Technology Division
Moderator: Daphene Cyr Koch, Purdue University
My main project has been working on the hard-copy version of a membership directory. It is half way to completion, and should be printed and mailed to the membership by the end of February. Right now, CED Membership is at 201 members…this reflects an increase over the last few years. I believe we were at 174 two years ago…also noticeable is the number of international members. I also believe there could be an increase in the number of corporate members over the previous year, but this is more from noticing the employer members as I am assembling the directory rather than any hard data.

Additionally, we have put our third ad in the Prism Magazine. Mieke Schurrman put together a great Research ad which was in the most recent edition. Other than these projects, I have assisted Harold Simmons on the Nominations Committee and in making some minor corrections to the by-laws. I will also send to the listserve any information that is requested.

Also, since I had access to the ETD listserve, I sent them information on purchasing the CED Directory. Perhaps this is something that we can send to some of the other divisions too.

Co-op Student of the Year Award Committee
Debe Williams

**Purpose** – This committee’s purpose is to evaluate the nominations for CED Co-op Student of the Year (STY) and determine a winner.

**Responsibilities** - The chair was responsible for having two other committee members who do not have a student from his or her institution as a nomination for CED - STY. This year’s committee consisted of Debe Deeb Williams, Chair, of the University of Illinois, and Neil Burton and Jeff Neal both of Clemson University.

The chair was responsible for organizing each student’s packet and sending them to the committee members along with the evaluation form.

Once a winner had been established it was the Chair contacted the committee members to announce the winner as well as the winning school to congratulate them.

**Nominations** – There were eleven nominations for the 2007 CED from the following institutions:
University of Tennessee
North Carolina State University
University of Alabama-Huntsville
Cornell University
Stevens Institute of Technology
Grand Valley State University
Northwestern University
University of Cincinnati
Illinois Institute of Technology
University of Pittsburgh
University of Kentucky

With the winner being Marvin Barnes from the University of Alabama-Huntsville.

**Awards** – Certificates and letters of congratulations were went to all the nominated students, their nominating schools, and the supporting employers for recognition as finalist for the CED Co-op Student of the Year, except for the Student of the Year who will be given his framed certificate and letter at the Awards Banquet at the CED Annual conference. The Student of the Year also will receive his $500 Award at this event.
A letter went out to 201 Directors of Cooperative Education in North America on November 1, 2006 inviting input for the 2007 Directory of Engineering and Engineering Technology Cooperative Education Programs. 98 Schools responded with all of the information necessary to include them in the 2007 Directory. 31 of the 2007 Directories have been ordered producing a $262 profit so far. Directories should be shipped out by February 5, 2007.

In addition to the printed Directory a CD of the past five Directories (1999 – 2007) has been produced and 100 copies available. One CD will be included with each $50 order. I will demo the CD to the Board is equipment is available at the Board Meeting.

The 2005 Directory produced a $848 profit for CED and a check will be given to the treasurer in that amount.

**News from the CO-OP Troops (See below)**

The College of Engineering at Michigan State University is pleased to announce the following appointments to assist our students in obtaining their career goals through all forms of experiential education including: Research Experience, Cooperative Education, Internships, and Service Learning:

As Director of Employer Relations, Garth Motschenbacher coordinates activities with the MSU Career Services Network in cooperation with the Cooperative Engineering Education Program to develop and implement a full set of services to ensure MSU engineering students maximize early opportunities in the workplace and obtain competitive placements upon graduation.

Mr. Garth Motschenbacher Director, Employer Relations

**Request from the Editor**

Every newsletter that I have ever read has information provided by the membership that includes news of promotions, retirements, awards, and special co-op activities that everyone would like to hear about. With that said, I hope that you will take the time to send me notices of good things happening across the country in your work and life that you will share with others. Please send to gunn@egr.msu.edu.

On another note, I would really like to encourage a group of individuals to volunteer to become “cub reporters” for *Newsbriefs*. Their job would be to report on co-op happenings in their sections of the country. Interested? Send email to gunn@egr.msu.edu
The Mission of the CED Research Committee is to serve as the cooperative education research resource for the Cooperative Education Division of ASEE.

Research is vital to the development and advancement of cooperative education. The CED Research Committee identifies research needs, sponsors research, promotes research in cooperative education and disseminates research results to the CED community. The CED Research Committee promotes scholarly research in the field of cooperative education that will document and promote cooperative education among its various constituents. The Committee develops appropriate strategies and works in concert with other cooperative education associations as well as public and private agencies and foundations to strengthen and promote the advancement of relevant research.

Current CED Research Committee members: Faye Collett-Sutton (University of Louisville), Sheri Dressler (University of Central Florida), Ray Easterlin (University of Texas-Austin; liaison for CEIA Research Committee), and Mieke Schuurman (The Pennsylvania State University; Chair).

**CED Research Updates**

**2003 CED Research grant**

- In October 2006, CED paid The Georgia Tech Research Corporation’s final invoice of $665.80 as part of the 2003 Georgia Tech CED research project (investigators Charles Parsons and Harold Simmons)—this will bring the total expenses to $4,845.58, which is under budget. No further items are expected to be reimbursted.

**2007 CED Research grant competition**

- The 2007 Research grant competition was announced with a one-page advertisement in the January 2007 issue of Prism, ASEE’s monthly magazine. The Committee also plans to send multiple e-mails to the CED membership, the CAPSNET and CEIA list servs. To reach a broader audience of engineering education researchers, we also plan to advertise the research grant competition to ASEE’s Education Research and Methods division. Other avenues for marketing the competition will be explored as well.
- The Research Committee web pages have been updated to reflect the 2007 grant competition.

**Co-op and Internship survey**

- Mieke Schuurman has been working with Sheri Dressler on the content of the Cooperative Education and Internship Association Survey. This survey is expected to be ready for data collection soon, and will be posted on the CEIA website. Survey participation will be solicited through the CEIA, internship, CAPSNET and CED listservs, and other venues are being explored.

**Research Committee Outreach to Co-op community**

- The Research Chair presented a workshop entitled “Writing an Effective Research Grant Proposal” at the 2007 CIEC conference, assisted by Sheri Dressler and Faye Collett-Sutton. This interactive session focused on how to write an effective research grant proposal, aiming to enable attendees to identify and use strategies to improve their proposals or successfully develop new ideas. We plan to make workshop materials available on the CED website for further dissemination.
Dr. Les Leone Chosen as the Clement J. Freund Awardee

Make your plans to attend the ASEE Annual Awards Dinner on June 27th
In Honolulu, Hawaii to cheer on Dr. Les Leone as the 2007 Clement J. Freund awardee.

Clement J. Freund (1895-1984) was one of the pioneers in the field of cooperative engineering education. He chaired an ASEE committee on the aims and ideals of cooperative engineering education, which produced the report entitled "The Cooperative System-A Manifesto." The report is still accepted as the official statement of the Cooperative Education Division policy.

The Clement J. Freund Award honors an individual in business, industry, government or education who has made a significant positive impact on cooperative education programs in engineering and engineering technology. This award is now offered every odd numbered calendar year.

Established in 1979 by the Cooperative Education Division of ASEE to commemorate its 50th anniversary, the award has been funded through an endowment provided by the following contributors: Caterpillar Tractor Company, Danly Machine Corporation, Diamond Shamrock Corporation, Dow Chemical U.S.A., John Deere, Sundstrand Corporation and Union Carbide Corporation.

Send les congratulations at leone@egr.msu.edu

CIEC 2008 - New Orleans, Louisiana
February 12-15, 2008  Is it on your calendar???
Make every effort to join us for the ASEE Picnic on Sunday June 24, 2007 and then for all the sessions of the conference. Make a special effort to attend the ASEE Annual Awards Banquet on Wednesday June 27th.

Monday Session 1311 Curriculum Reform with Cooperative Education
   Cheryl Cates / Moderator

1. THE USE OF COOPERATIVE EDUCATION IN CURRICULAR REFORM: THE ABET FEEDBACK CYCLE REALIZED Cheryl Cates University of Cincinnati Kettil Cedercreutz University of Cincinnati

2. COOPERATIVE EDUCATION AS A PRIME MOVER AND KEY CONSTANT IN INDUSTRY - UNIVERSITY RELATIONSHIPS Daniel Walsh California Polytechnic State University Jon Whited St. Jude Medical Robert Crockett California Polytechnic State University

3. THE TRANSITION FROM POST-SECONDARY EDUCATION TO THE LABOR MARKET: THE ROLE OF COOPERATIVE EDUCATION Maureen Drysdale University of Waterloo John Goyder University of Waterloo Karen McAlpin University of Waterloo

4. A NEW INITIATIVE FOR RESEARCH CO-OP AT THE UNIVERSITY OF CINCINNATI Bryan Dansberry University of Cincinnati

Tuesday Session 2111 Cooperative Education Addresses ABET
   Harold Simmons / Moderator

1. USING CO-OP EMPLOYER SURVEYS TO ASSESS ABET OUTCOMES John Mathews Mississippi State University Donna Reese Mississippi State University

2. DEVELOPMENT OF AN OUTCOMES-BASED ASSESSMENT INSTRUMENT FOR USE BY THE SUPERVISORS OF PROFESSIONAL PRACTICE STUDENTS Robert Stwalley Purdue University

3. PROGRAM EVALUATION OF ABET CRITERION 3 OUTCOMES USING DIRECT AND INDIRECT ASSESSMENT DATA Steven Mickelson Iowa State University Larry Hanneman Iowa State University Thomas Brumm Iowa State University

4. EXPANDING A SUCCESSFUL INDUSTRY-BASED PARTNERSHIP BEYOND THE TRADITIONAL COOPERATIVE EDUCATION EXPERIENCE Jess Godbey Jacksonville State University Terry Marbut Jacksonville State University
Tuesday Session 2411 The Impact of Cooperative Engineering Education
Bob Stwalley / Moderator

1 INFLUENCES ON FACULTY ENGAGEMENT IN COOPERATIVE EDUCATION Bernadette Friedrich
Michigan State University

2 CAREER-TECHNICAL EDUCATION AND THE TALENT PIPELINE Stephen Hundley Indiana University-Purdue University Indianapolis Charles Feldhaus Indiana University-Purdue University Indianapolis

3 THE IMPACT OF COOPERATIVE EDUCATION ON DEGREE RELATED EMPLOYMENT Anthony Joseph Pace University

4 ASSESSING THE IMPACT OF CO-OP PARTICIPATION ON THE RETENTION AND ACADEMIC PERFORMANCE OF ENGINEERING STUDENTS John Mathews Mississippi State University J. Mike Nosser Mississippi State University

5 WHY DO ENGINEERING EXPERIENTIAL EDUCATION STUDENTS HAVE SIGNIFICANTLY BETTER OUTCOMES AT GRADUATION?

Wednesday Session 3411 Collaboration Provides the Best Education
Maureen / Barcic

1 THE CRITICAL IMPORTANCE OF INDUSTRY PARTNERSHIP IN 21ST CENTURY ENGINEERING EDUCATION Daniel Walsh California Polytechnic State University Jon Whited St. Jude Medical Robert Crockett California Polytechnic State University

2A MICROSOFT ACCESS © DATABASE APPROACH Gary Martin University of the Pacific

3 ONLINE ASSESSMENT AND LEARNING INSTRUMENTS FOR COOPERATIVE EDUCATION STUDENTS: THE IMPORTANCE OF CO-OP DATA TO ABET Cheryl Cates University of Cincinnati Anita Todd University of Cincinnati

4 MENTOR: MOTIVATING ENGINEERS THROUGH ORGANIZED RELATIONSHIPS Brian Koehler North Carolina State University Susan Matney North Carolina State University Jerome Lavelle North Carolina State University Mary Clare Robbins North Carolina State University

5 THE DIVISION OF PROFESSIONAL PRACTICE AND THE DEPARTMENTS OF CIVIL ENGINEERING AND MECHANICAL ENGINEERING AT THE UNIVERSITY OF CINCINNATI: FACULTY COLLABORATION IN CURRICULAR REFORM Cheryl Cates University of Cincinnati Kettil Cedercreutz University of Cincinnati
THE ALVAH K. BORMAN AWARD

This award honors Alvah K. Borman, the late Dean of Graduate Placement Services, Northeastern University, for his numerous outstanding contributions to engineering cooperative education over many years, including the founding and editorship of the CED Newsbriefs from 1969 until his death ten years later.

The Division allows for the presentation of up to two awards each year to Division members, past or present, who have made sustained, honorable, and meritorious contributions to the promotion of the philosophy and the practice of cooperative education in engineering and/or engineering technology.

This year’s awardee is

Dr. Robert Tillman, Northeastern University - Boston

Bob Tillman has had an illustrious career in the field of cooperative education: as a co-op student, an employer, a co-op practitioner and Dean. He has made numerous presentations at all levels and is the author of many peer-reviewed publications in the national and international community. A strong advocate of quality cooperative education, Bob has been a mentor, consultant, and role model to many professionals in the field of co-op. He has also served in many roles for CED, most recently as Archivist. Tireless and firm in his convictions regarding co-op, his areas of expertise include engineering ethics and computer technology. For his commitment and continuing dedication to the ideals and aims of cooperative education, Dr. Robert Tillman is a deserving recipient of the 2007 CED Alvah K. Borman award.
Cooperative Education Student of the Year

Marvin Barnes - University of Alabama, Huntsville / United Space Alliance

Marvin Barnes, a senior chemical engineering major at the University of Alabama in Huntsville, has completed four alternating co-op assignments with United Space Alliance (USA). USA is a prime contractor for the National Aeronautics and Space Administration for the operation and maintenance of the space shuttle. On his co-op assignments Marvin worked with the company’s Productivity Enhancement and Material Development (PEMD) group. Marvin is a native of Aliceville, Alabama where he graduated valedictorian of Aliceville High School. He makes time to give back to the community by volunteering as a tutor for the elementary students. He is also active in outreach projects through his church.

Barnes wrote, “Through the co-op program, I have met people and had experiences that will be a part of my life for many years to come. No matter what career I pursue at graduation, Co-op will lead the way to amazing opportunities and life long adventures.”
Lou Takacs Awardee

Patrick Skelly, IBM

Pat Skelly has overseen the placement of hundreds of co-op students at IBM at over 50 locations throughout the US. He has been a champion in diversity activities, including a pilot program for "IBM Women in Technology," and eagerly recruited students from RIT's National Technical Institute for the Deaf. Mr. Skelly does everything with commitment and passion, and he has made a positive difference in the lives of many individuals. Through good and even tough economic times, Pat has been a champion for co-op within one of the largest companies in the world. A professional in every sense of the word, CED is pleased to present the 2007 Lou Takacs Award to Patrick Skelly of IBM.

Dick Johnson, Gulfstream Aerospace

A University of Cincinnati "distinguished alumnus," Dick Johnson has been a co-op student and employer of co-ops. Receiving his BS degree in Aerospace Engineering in 1973, Dick has been with Lockheed-Georgia, and moved to Gulfstream Aerospace in 1981, where he is now Corporate Vice-President, Engineering. Not only an accomplished professional in his field, he has worked diligently to keep co-op students as an active part of Gulfstream's recruiting process. Currently, they employ an average of 40 students each year from a variety of institutions, and their program is a model to be emulated. Dick has played a central role in these efforts. He has been active in CED activities, and served as a keynote speaker at the 2005 CIEC. He is also a member of the Board of Trustees for the National Commission for Cooperative Education. CED is pleased to recognize Dick Johnson of Gulfstream Aerospace as a recipient of the 2007 Lou Takacs Award.
2007 Student of the Year Information
(Information also found at http://www.profpractice.gatech.edu/ced/instruction.htm

CED Student of the Year Award Announcement and Instructions
The Cooperative Education Division of the American Society of Engineering Education (ASEE / CED) annually sponsors a search for outstanding co-op students employed during each Academic Year. The winning student receives a cash award, and is invited to the annual Conference for Industry & Education Collaboration (CIEC) to receive their award at the Awards Banquet. All nominated students will receive a letter and certificate of recognition for their national nomination.

Eligibility:
- Nominated students must be nominated by a member of ASEE / CED.
- Nominated students must be enrolled in a four-year / five-year degree program.
- Nominated students must be registered in a cooperative education program meeting the traditional definition of multiple work terms.
- Nominated students must have completed two or more work sessions or be in process of completing the second work session at the time of nomination.
- Students who complete one-time internship positions do not qualify for this award.
- If you have a question about eligibility, please contact the CED representative listed below.
- We request that each institution, CO-OP regional conference, CO-OP state conference or employer send only one nominee.

Award:
- The winning student will receive a cash award.
- The winning student will receive a recognition plaque.
- The winning student will be invited to attend the CED Conference in Biloxi, MS to receive their award and be recognized at the awards banquet.
- All nominated students will receive a letter of recognition and a certificate of national nomination.

Nomination Package Needs:
- CED Co-op Student of the Year Nomination Cover Sheet
- Two page, typed, double-spaced statement of support from the student's employer
- Two page, typed, double-spaced statement of support from the student's college / university
- Two page, typed, double-spaced statement from the nominated student
- A copy of the student's most recent resume.

Employer Statement:
- Two page, typed, double-spaced statement of support (do not provide any extra materials)

Discuss the following possible topics:
- The student's work-related duties, quantity of work, and quality of work.
- Examples of the student's initiative or creative or original work.
- Examples of how the student was challenged during their co-op assignment.
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Employer Statement:

- Two page, typed, double-spaced statement of support (do not provide any extra materials)
- Discuss the following possible topics:
  - The student's work-related duties, quantity of work, and quality of work.
  - Examples of the student's initiative or creative or original work.
  - Examples of how the student was challenged during their co-op assignment.
  - Any published papers, presentations or other formal presentations of their work. (Do not include, just discuss)
  - Any recognition or awards from the company.
PurPOSE
The CED/ASEE may present one or two of these awards each year to Division members (past or present) who have made sustained, honorable and meritorious contributions to the promotion of the philosophy and practice of cooperative education in engineering and technology. Instituted in 1979, this award honors Alvah K. Borman, Dean of Graduate Placement Services, Northeastern University, for his numerous outstanding contributions to engineering cooperative education over many years, including the founding and editorship of the CED Newsbriefs from 1969 until his death ten years later.

NATURE OF THE AWARD
The award is a framed certificate signed by the chairman of the CED/ASEE and the president of the ASEE and a handsome wooden plaque with engraved lettering on brass. There is also a $500 honorarium. It is presented at an Awards Banquet at the annual CIEC.

ELIGIBILITY
Nominees for the award must be active members of CED/ASEE or have been members during their professional lives. Persons nominated should have made clearly outstanding contributions to the advancement of Engineering Cooperative Education over a significant period of time as evidenced by leadership positions held in the Division, publications in the cooperative education field, or other significant and related activities. This includes, but is not limited to, contributions to CED, Universities, and Industry. Attendance at the CED Awards Banquet to receive the award in person is required, unless extenuating circumstances are present.

NOMINATION PROCEDURE
Nominators must be active members of CED/ASEE or have been members during their professional lives. No member may nominate himself, a family member, or a superior or a subordinate in his/her own organization. No member of the Borman Award Selection Committee can nominate a candidate. The nomination form must be completed and submitted to the Chairman of the CED/ASEE Awards Committee by the announced deadline. The description of the contributions made by the nominee must be limited to one additional page. However, supporting letters from other individuals may also be submitted.

If an individual is nominated and does not receive an award, she/he may be nominated again the following year merely by sending a letter to the CED/ASEE Awards Committee Chair before the announced deadline, and referring to the completed application of the previous year.

Nominations shall be considered solely on the basis of information submitted by the nominator.

SELECTION PROCEDURE
The CED/ASEE Borman Award Selection Committee will review all nominations and select the recipient(s) of this award. If the committee judges that none of the nominees are deserving of the award, the committee reserves the right to make no selection. Not more than two awards shall be made in any one-year. If there are two, it is encouraged (but not mandatory) that one should be made to a college or university member, the other to an employer representative (industry or government). Nominations with committee recommendations will be submitted to the Executive Board of CED/ASEE, which shall approve the awards.
AMERICAN SOCIETY FOR ENGINEERING EDUCATION

COOPERATIVE EDUCATION DIVISION

Alvah K. Borman Award Nomination Form

Nominee’s Full Name & Title______________________________________________
________________________________________________________________________
Nominee’s Address_______________________________________________________
________________________________________________________________________
Employer’s Name & Address______________________________________________
________________________________________________________________________

NOMINATION DEADLINE IS NOVEMBER 1, 2007

Nominator’s Full Name & Title_____________________________________________
________________________________________________________________________
Nominator’s Mailing Address______________________________________________
________________________________________________________________________
Nominator’s e-mail Address_______________________________________________
Nominator’s Telephone___________________________________________________

Submit no more than one additional page describing the contributions of the nominee to the field of engineering cooperative education. You may also attach supporting letters.

Submit nomination form and all supporting documents to:

Thomas M. Akins
Executive Director, Division of Professional Practice
CED LOU TAKACS AWARD

PURPOSE

CED may present one or two of these awards each year to Division members (past or present) who have made significant, honorable, and meritorious contributions to the promotion of the philosophy and practice of cooperative in engineering and technology. Officially begun in 2003, this award honors Lou Takacs, a long time employer of co-op students with E. I. DuPont, and after his retirement there, held a brief career at the University of Kentucky as a co-op advisor until his death in 2003.

NATURE OF THE AWARD

The award consists of an engraved desk plaque with the CED/ASEE logo, presented at the CED Awards Banquet at the annual CIEC.

ELIGIBILITY

Nominees for the award must be active members of CED/ASEE or have been members during their involvement with cooperative education. Individuals nominated should have made significant contributions to the field and to CED while performing their professional duties for their employer.

NOMINATION PROCEDURE

Nominators must be active members of CED/ASEE or have been members during their professional lives. No member may nominate himself, a family member, or a superior or a subordinate in his/her own organization. No member of the Awards Committee can nominate a candidate. The nomination form must be completed and submitted to the Chairman of the CED/ASEE Awards Committee by the announced deadline. The description of the contributions made by the nominee must be limited to one additional page. However, supporting letters from other individuals may be submitted as well.

If an individual is nominated and does not receive an award, she/he may be nominated again the following year merely by sending a letter to the CED/ASEE Awards Committee Chair before the announced deadline, referring to the completed application of the previous year.

Nominations shall be considered solely on the basis of information submitted by the nominator.

SELECTION PROCEDURE

The CED/ASEE Awards Committee will review all nominations and select the recipient(s) of this award. If the committee judges that none of the nominees are deserving of the award, the committee reserves the right to make no selection. Not more than two awards shall be made in any one-year. Nominations with committee recommendations will be submitted to the Executive Board of CED/ASEE, which shall approve the awards.
AMERICAN SOCIETY FOR ENGINEERING EDUCATION
COOPERATIVE EDUCATION DIVISION

Lou Takacs Employer Recognition Award Nomination Form

Nominee’s Full Name & Title ________________________________

_____________________________________________________________________

Nominee’s Address__________________________________________

_____________________________________________________________________

Employer’s Name & Address _________________________________

_____________________________________________________________________

NOMINATION DEADLINE IS NOVEMBER 1, 2007

Nominator’s Full Name & Title ________________________________

_____________________________________________________________________

Nominator’s Mailing Address ________________________________

_____________________________________________________________________

Nominator’s e-mail Address ________________________________

_____________________________________________________________________

Nominator’s Telephone ________________________________

Submit no more than one additional page describing the contributions of the nominee to the field of engineering cooperative education. Additional supporting letters may be attached.
Cooperative education is now more than 100 years old. The co-op approach, in which students alternate time in the classroom with professionally paid work directly related to their majors, was founded at the University of Cincinnati by Dean Herman Schneider in 1906. There are co-op programs today at 500 institutions in the United States.

The centennial marks a good time to take stock. How effective is co-op? What has been its impact on its three fundamental partners — students, employers, and institutions of higher education? Is co-op still relevant? Still viable? What role should co-op play in 21st century education?

I see empirical evidence of co-op’s value every day at the University of Cincinnati. We have 3,800 students in 44 disciplines participating in co-op opportunities at more than 1,500 employers in 34 states and 9 foreign countries. At graduation, UC co-op students have an enviable head-start in their careers by virtue of their on-the-job work experience (an average of one-and-a-half years for UC students), marketable skills, impressive credentials, and networking connections. Many are hired immediately by the companies where they completed their co-ops.

Collectively, our co-op students earn about $35 million each year. Plain and simple, that money helps students pay for college. Moreover, if those dollars came in the form of scholarships, it would necessitate a university endowment totaling $875 million. In short, we would have to nearly double our endowment to support the program.

Beyond those signs of success, of course, our co-op students benefit from blending classroom learning with experience in the workforce — applying theory to practice, as one researcher summarized it. Theirs is the ultimate school-to-work transition. And at the nexus where co-op takes place, benefits also accrue to participating employers and the sponsoring university.

We have long known of these benefits anecdotally. Over the past 20 years, a series of small studies have started to confirm co-op’s value in data. Overall the field needs broader studies and better longitudinal analysis, but the research that has been conducted to date tells a remarkably consistent story. Studies show definitively, for example, that co-op experiences help students explore career options, clarify goals, and find mentors. There’s now statistical evidence that co-op motivates students to learn and study, leads to higher GPAs, and improves individual self-confidence. There is further documentation of the value of co-op in improving individual communications and human relations skills. That’s all in addition to findings that co-op alumni get higher salary offers than their non-co-op peers.

Abstracts from over 40 years of research are available online.

Studies also now confirm the benefits of co-op for employers. Co-op serves as an effective screening and selection process in the recruitment of new talent and it leads employers to workers who are typically more motivated and more productive than other recruits. Co-op also has a positive effect on employee retention and productivity.

In its “Job Outlook 2005,” the National Association of Colleges and Employers reported that employers complain continually that too many new college graduates lack maturity, don’t know how to conduct themselves in a business environment, and don’t have an appropriate work ethic. Those are skill sets that co-op students develop during their education. It’s perhaps not surprising, therefore, that estimates of the number of co-op employers — including Fortune 500 companies, small businesses, government, and nonprofit organizations — have jumped in recent years from 50,000 to more than 120,000. Not surprising, either, is that such organizations as the Education Commission of the States and the State Higher Education Executive Officers have called for improved postsecondary attention to the school-to-work transition, which of course is at the heart of co-op education.

Colleges and universities benefit from co-op, too. Co-op students enhance learning by infusing classroom discussions with real-world experiences — sometimes leading faculty to reform curricula.

In 2006 the highly ranked architecture program at my university combined employer feedback with faculty observations from the classroom and resolved to focus on the enhancement of students’ building construction skills. Similarly the civil engineering program used employer feedback as well as input from their accrediting body to redesign the curriculum to enhance students’ understanding of the fundamental concepts of structural analysis.

By its inherent nature, co-op leads institutions of higher education to better relationships with business, which in turn opens new doors for fundraising and partnerships beyond co-op. Another practical benefit is in student recruitment. Pace University found that a full half of incoming students were attracted to the university by its co-op opportunities. What’s more, their study showed, the student retention rate for those in the co-op program was 96 percent, compared to 52 percent for the institution as a whole. Other studies corroborate co-op’s positive impact on student retention.
Co-op programs drive colleges and universities to be continually innovative in curricula and learning processes in response to employers’ needs. In fact, a study under way at the U.S. Department of Education is helping document that co-op education is emerging as one of the few educational approaches that can help curricular development keep pace with industry needs. It may be time, then, for the U.S. Congress, as it works on re-authorizing the Higher Education Act, to take a fresh look at how co-op education can help enhance college affordability and ensure the relevance of higher education in the new century.

Our neighbors to the north have the right idea. The Province of Ontario offers up to 15 percent tax breaks for companies hiring co-op students. Tax incentives for companies employing co-op students could be the best way of increasing the participation in cooperative education. Tax breaks treat all sectors of industry equally, and are less likely to skew the production of graduates towards segments without a solid employment market.

One hundred years after co-op was created at the University of Cincinnati, our Professional Practice program is leading a $1 million study that will help create the next generation of co-operative education. We’re looking for ways to link measures of student performance in co-op with corporate feedback and curricular reform. Our work is just one of a number of current efforts looking to make co-op stronger pedagogically and even more relevant — efforts, for example, to reinforce student learning through improved self-reflection, and to link co-op more deliberately with experiential and service learning.

The co-op approach creates necessary bridges between work and learning, between liberal education and professional education, and between universities, government, and business. Moreover, co-op prepares students extraordinarily well for work — and life — in today’s fluid, fast-paced, and globally interdependent workplace. By the time they graduate, co-op students have a firsthand perspective on international competition, business ethics, workplace diversity, corporate cultures and more. As we prepare students for their roles in the 21st century, the benefits and attributes of co-op education have never been more relevant, or more urgently needed.

Nancy L. Zimpher is president of the University of Cincinnati. As a faculty member, Zimpher directed hundreds of student teaching experiences and fondly her own initial “real world” experience — as a student teacher.

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