



*Northeast Agricultural and Biological
Engineering Conference
Newsletter*

nabec.asabe.org

Volume 23, Number 2
Fall 2012

Dates to Remember:

- NABEC 2013: June 16-19
- July 7-10, 2013: CSBE meeting, Saskatoon
- July 21-24, 2013: ASABE Annual Meeting, Kansas City, MO

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NABEC 2013

Relax Professionally in Altoona, Pennsylvania

June 16-19

On behalf of the NABEC 2013 Organizing Committee and local host McLanahan Corporation, we are pleased to invite you to the NABEC Summer Meeting to be held 16-19 June 2013 in Altoona, Pennsylvania, located in the beautiful Laurel Mountains of Central PA. Our number one goal is to provide an ideal environment for “relaxing professionally” that NABEC members look forward to year after year. From farming to food processing, heavy manufacturing to transportation, Altoona is home to many industries sure to interest agricultural and biological engineers.

To relax, families can visit Delgrosso’s amusement park and more. On the professional side, we’ll visit Delgrosso’s spaghetti sauce processing facility. Our group picnic will be held in the Blair County Ball park where we will watch the Altoona Curve (Pittsburgh Pirates AA affiliate) host the New Hampshire Fisher Cats (Toronto Blue Jays). Additional tours will include the manufacturing facility at McLanahan Corporation and the flood control works at the Raystown Dam. Stay tuned for more!

The professional program will be held at the Blair County Convention Center (www.pennsylvaniameetings.com/) situated adjacent to the Altoona Courtyard by Marriott (www.marriott.com/hotels/travel/aoooc-courtyard-altoona/). A keynote address will be given by Dr. William Bickert (Michigan State University, Professor Emeritus). Dr. Bickert will draw upon his experience as Chairperson of the Futuring Committee that transitioned Michigan State University from a tried and true Agricultural Engineering Department to a contemporary Biosystems and Agricultural Engineering Department. Day two will begin with a panel discussion exploring the role of agricultural and biological engineers in the areas of increasing production, processing, and delivery of food to satisfy a world population set to nearly double by 2040. Who is better prepared than agricultural and biological engineers to take-on these challenges?

Altoona is situated approximately two hours east of Pittsburgh and two hours west of Harrisburg, PA, and served by airports in both State College (SCE) and Martinsburg (AOC), PA.





Additional Information:

Interested in the names of past chairs of NABEC and the NAR conferences?
nabec.asabe.org/pastchairs.htm

Interested in past locations of NABEC and NAR conferences?
pastconferences.htm

Submit a Paper/Poster Abstract for NABEC 2013 !

You are invited to come to NABEC 2012 and share your professional experience, insights or research with your colleagues. Two presentation formats are available: Poster or short technical oral presentation.

The submittal deadline for the abstract of the presentation is **January 31, 2013**. Wide variety of topics in the fields of Agricultural and Biological Engineering are welcomed. Presentations about successful or innovative teaching and extension programs are also welcomed.

Oral presentations are limited to 10 minutes in order to provide time for a large number of presentations. Presenters are encouraged to provide details that do not fit in the 10 minute presentation or on a poster, in a **written paper** that can be distributed at the meeting. Template for this written paper is available on NABEC website.

There will be **Graduate Student Competitions** in both **Oral and Poster Presentation Categories**. Competition papers must be submitted with a graduate student as first author and presented by the graduate student. Cash awards and certificates are given to the winning presenters. The deadline for submittal for the competitions is the same **January 31, 2013**, and is firm.

The number of oral presentations may be limited. Abstracts submitted after the deadline may only be considered for inclusion in the program as space permits but will not be entered into the student competitions. You will be notified of acceptance by March 1, 2013.

Submission Format:

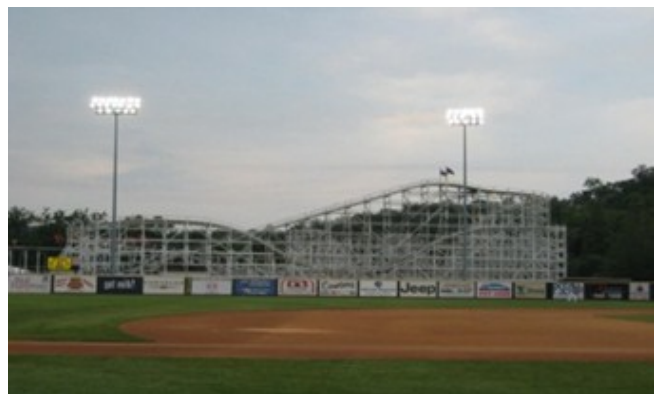
Download the submission template from the **NABEC website**, nabec.asabe.org and send by **email** to the address shown below. Submissions without the template may not be accepted.

Faculty members, please encourage your graduate students to submit an abstract proposal for the student competitions and come to NABEC 2013.

Send abstracts to:

Satyanarayan Dev
Adjunct Professor, Bioresource Engineering,
McGill University, Canada
and Assistant Professor of Food Science,
College of Applied Sciences,
A'Sharqiyah University
E-mail: satyanarayan.dev@asu.edu.om

Phone: 968-255 60 710 Ext 257



Blair County Ballpark and Lakemont Park, Altoona, PA



Jan Jofriet, Heather Smeltz

If you weren't at NABEC 2012, you missed a great meeting! This was a joint meeting with the Canadian Society of Biological Engineers (CSBE), held July 15-18, 2012 in Orillia, Ontario. The conference was held on the Orillia Campus of Lakehead University. This was a new site for Lakehead University and was in perfect condition.

The joint meeting gave opportunities that would not be at a normal NABEC meeting. One of these was preconference workshops. Approximately 50 people attended one of four workshops held on Sunday preceding the conference. Topics included *Biomass crop production for energy*, *On-farm anaerobic digesters for energy*, *Design of composting facilities for municipal organic waste management*, and *Nanotechnology: Exploring Practical Solutions in Agriculture, Food and Biological Systems*.

The meeting's plenary speakers gave outstanding presentations. On Monday morning Karen Landman, Landscape Architecture, University of Guelph spoke on urban agriculture and detailed her observations of the several North American cities she visited on her recent study leave/sabbatical. On Tuesday morning, the plenary speaker was Helmi Ansari, director of Sustainability and Productivity with PepsiCo Foods. He gave a wide ranging talk on sustainability, the energy we use, the waste we generate and the efforts by his company to reduce both in their manufacturing processes.

Since it was a joint meeting, another opportunity was to give and/or attend longer paper presentations. Of the 79 papers presented orally, 36 were 15 minute talks, 20 were the normal NABEC 10 minute tech short, and 23 papers were presented in the graduate student competition. The first place winner of the NABEC undergraduate paper competition also presented on his winning paper. There were 36 posters presented at the meeting – so many so that the room needed to be changed to accommodate the session. Nineteen graduate students participated in the graduate student poster completion with prizes being awarded to the top three students.

The Monday evening BBQ was held at Bayview Memorial Park on the shores of Lake Simcoe. It provided a sandy beach, swing area for kids and a roofed pavilion with picnic style tables. Food (hamburgers and sausages) were provided by a local catering company. After eating, there was a music jam with Rob and Stacey Chirnside, and others. The beautiful setting and a warm summer evening made for a wonderful time of talking with friends and colleagues.

Tuesday's Awards Banquet was also joint with CSBE and held in the Best Western Mariposa Hotel. NABEC recognized the winners from the Graduate Student Competitions, Young Engineer of the Year, Distinguished Service Award Recipient, and Milestone Awardees in attendance. Table gifts of local honey and a Stephen Leacock calendar were at each place setting.

On Wednesday, 54 people participated in one of two technical tours. Tour 1 was to the Holland Marsh, a 7000-acre muck farming area south of Barrie that has provided Toronto with much of its vegetables (onions, carrots, etc) for 100 years. The Muck Crop Research Station and Hillside Gardens, a large vegetable farm and packing operation, were visited. The day ended at the Holland Marsh winery with a tour of their facilities, a lunch and a wine tasting.

Tour 2 visited the Muskoka area. This started at the university with a short tour of the new buildings to explain the features that gave them a LEED platinum rating. The second stop was the Matchedash Bay wetland site (Ramsar world listing). The third stop was the Big Chute marine railway which is part of the old Trent Severn Waterway. The final stop was the Muskoka Boat and Heritage Centre in Gravenhurst to see the in-water exhibit of over 60 antique wooden boats.

Two days of programs were also arranged for accompanying persons. Monday was a walking tour of downtown Orillia and in the afternoon a boat tour of Lake Couchiching. On the second day accompanying persons visited the Coldwater Canadian Museum, and a farmer's market.

A huge thank you is owed to the Program and the Local Arrangements Committees for all their hard work and a job well done!

NABEC 2012 Graduate Paper Competition Winners

We had many excellent presentations by graduate students in both the Poster and Oral Paper Competitions at the Orillia NABEC 2012 meeting. It was a fierce competition as there were many worthy papers presented by both NABEC and CSBE graduate students. Names of award winners are listed below.

Poster Competition

First Place – Idris Adalakun, University of Manitoba

Paper 12-116, Effects Design of a Reusable Multilevel-TDR Probe For Measuring Soil Water Content

Second Place – Priyanka Kapoor, McGill University

Paper 12-060 – Effects of Popping on the Nutrient Availability of Little Millet

Third Place – Golmar Golmohammadi, McGill University

Paper 12-036 – Field Evaluation and Hydrological Analysis of SWAT and MIKESHE

Oral Competition

First Place – Sanaz Alizadeh, McGill University

Paper 12-106 – Role of Biochar-Soil Amendment in Reducing Hormone Pollution from Poultry Manure

Second Place – Hui Huang, McGill University

Paper 12-084 – Determination of Pork Marbling Based on Image Texture Analysis

Third Place – Deasy Nalley, McGill University

Paper 12-079 – The use of Wavelet Transform in Trend Analysis of Streamflow and Precipitation in Quebec and Ontario During 1954 - 2008

Congratulations to the award winners. They all received certificates from CSBE and NABEC along with cash awards.

NABEC 2012 Young Engineer of the Year

The 2012 NABEC Young Engineer of the Year Award recognizes Dr. Mark Lefsrud, Assistant Professor at McGill University and registered Professional Engineer.

Mark continues to work towards developing a research program in biomass production and biofuels in the Bioresource Engineering Department at McGill University. He has received 16 grants as primary investigator, 4 grants in collaboration, and published 21 peer reviewed publications. He has supervised over 75 undergraduate students on projects in his laboratory. He teaches 3 classes in the Bioresource Engineering program at McGill. He developed the class on Food, Fibre, and Fuel Elements as a senior undergraduate and graduate class. Mark was also involved in the development of the Barbados Interdisciplinary Tropical Studies (BITS) program taught at Bellairs Campus, Barbados. He was one of three professors involved in the development of the class on Tropical Energy and Food.

Mark is also very active on committees at McGill, nationally, and internationally. He serves on the SEAC advisory committee for the Canadian Space Agency, International Committee of Controlled Environmental Guidelines through NCR-101, and has served as a past chair of ASABE's SE-303 subcommittee on Environment of Plant Structures. He is also an active member in two networks on biofuels and organic agriculture.

The following individuals have been recognized as the NABEC Young Engineer of the Year Award (as well as its predecessor, the NAR Young Engineer of the Year):

1979 Norman Collins	1990 Unknown	2001 Terry Lynn Ruch
1980 Fred Wheaton	1991 Richard Jennings	2002 Michael Ngadi
1981 William Ritter	1992 Donald Pit	2003 Ali Demirci
1982 No Award	1993 Gene Giacomelli	2004 Hubert Montas
1983 David Ross	1994 Chandra Madramootoo	2005 Jennifer Becker
1984 Andrew Higgins	1995 Paul Heinemann	2006 Valérie Orsat
1985 Michael Walters	1996 Wayne Bogovich	2007 David Tilley
1986 Abdel Ghaly	1997 Dennis Buckmaster	2008 Jeffrey Catchmark
1987 Barry Frey	1998 Timothy Royer	2009 Su-Ling Brooks
1988 Herschel A. Elliott	1999 Cristina Ratti	2010 Andrew Wedel
1989 James Garthe	2000 Joseph Irudayaraj	2011 Deron Davis

NABEC 2012 Distinguished Service Award

The 2012 NABEC Distinguished Service Award recipient is Glenn Warner, a Professor and registered Professional Engineer. He is being recognized for his services and leadership in NABEC.

The Distinguished Service Recipient has been a Professor at the University of Connecticut since 1990 in the Department of Natural Resources Management and Environment. Since the year 2000, he also serves as Director of the Connecticut Institute of Water Resources.

As a member of ASABE since 1990, the Distinguished Service Award recipient has been active in NABEC, serving through the officer positions of the Planning Committee from 2004 until 2011. He was Chair during 2009-2010. He also served as the local host and Chair of Local Arrangements for the 2003 NABEC Conference at The University of Connecticut at Storrs, CT. In 2005 he led the organization of the first graduate student competitions for NABEC and then served as Chair/Co-Chair of the Graduate Student Competitions in 2005-2007 and 2009. This event has grown to be a major component of the conference.

The following individuals have been recognized with the NABEC distinguished Service Award since its inception in 1996:

1996 Eric Norris	2002 Abdel Ghaly	2007 F. Spencer Givens III
1996 William Roberts	2002 Arthur Johnson	2008 Allen Zimmerman
1997 Mark Singley	2003 David Ross	2008 Kenneth Lomax
1998 none	2003 William Ritter	2009 Robert Kok
1999 Jacob (Jack) Pos	2004 Paul Heinemann	2009 Wayne Bogovich
2000 none	2005 Bill Bowers	2010 Stanley Weeks
2001 Richard Peterson	2006 Julie Cayley	2011 Cristina Ratti
2001 Robert Aldrich	2006 Vijaya Raghavan	

Traditionally, NABEC and ASABE recognize members who have maintained their membership for 25 years. These members receive a certificate award from ASABE. A NABEC certificate award is handed out to those Milestone Members who attended the 2012 meeting.

Several NABEC members have reached an ASABE anniversary milestone. This milestone is for 25, 40, 50, 60+ years of membership.

George T. Crum (25)	Glendon D. Deal (40)	John H. Herr (62)
Peter Enright (25)	Franklin A. Kains (40)	Lowell J. Endahl (63)
A Thomas Ferrero, Jr (25)	John C. Schmidt (40)	James H. Whitaker (63)
Paul H. Heinemann (25)	Gilbert E. Sheppard (40)	Samuel G. Huber (64)
Andrew John Landers (25)	Kenneth A. Stegall (40)	Clement L. Montgrain (64)
Edward Lang (25)	Thomas H. Williams (40)	Robert B. Skromme (64)
Joe Linscott (25)	John W. Bartok (50)	Robert G. Yeck (64)
Eric Ouellette (25)	Carl E. Bouchard (50)	Robert T. Lorenzen (65)
Bernard Panneton (25)	Dwight W. Michener (50)	Kurt Nathan (65)
Michael J. Percy (25)	Gilbert Levine (60)	Carl W. Hall (66)
Cecil R. Sudbrack (25)	William L. Kjelgaard (61)	Bernard P. Rines (66)
Michael R. Toombs (25)	Benson J. Lamp (61)	R. Bruce Hopkins (67)
Suzelle F. Barrington (40)	Jacob Pos (61)	Albert M. Best (70)
William C. Bell (40)	Samuel E. Sides (61)	Curtis A. Johnson (72)
Richard K. Crowe (40)	Neil F. Bogner (62)	Lawrence H. Skromme (75)

NABEC-CSBE/SGCAB 2012 RESOLUTION – by Stacey Chirside

After all these years,
 I have not learned to say no.
 So I agreed to write the resolution,
 My multitasking is a bit slow

Two groups came together in Orillia,
 To the local planning folks-cheers!
 Great workshops, well attended,
 Best keynote speakers in years.

There were more wonderful talks,
 That one person could see.
 Eco and hydro, bio and food engineering,
 Biomass, biogas, buildings and machinery.

Some swam in Lake Simcoe,
 Julie played the zigaphone.
 CSBE and NABEC members
 From around the world, felt at home.

To all committee members, Kudos,
 For a job well done!!



Lake Raystown, near Altoona, PA

2013 NABEC Undergraduate Student Design and Paper Competitions

For those of you teaching upper level courses that involve student projects, the annual NABEC undergraduate student paper and design competitions are an excellent opportunity to enhance the significance of the work for your students. Individuals or teams may enter either competition. Entries for the paper competition should focus on technical topics of interest to the agricultural and biological engineering community and can, for example, be based on substantial class term projects, independent studies, or undergraduate research projects. Projects entered in the design competition must involve engineering design of a system, component, or process for applications in agriculture, forestry, engineering or related fields. Design competition entries have frequently been but need not be limited to the product of senior design projects.

Electronic submittal of all entries, preferably in pdf format is required. Please encourage your students to enter the competitions. Cash prizes to first, second, and third place entries are awarded for both competitions and travel expenses for first place winners to the 2013 NABEC meeting are available. For full details, see the NABEC website: nabec.asabe.org.

Also, please, consider volunteering your services as a reviewer! You will not be asked to review more than a few entries, and the review process is fairly painless. You'll be pleasantly surprised by the quality of the entries and your efforts will be greatly appreciated. Please, contact the Student Paper and Design Competition Committee Chair, Carmine Balascio, to volunteer (email: carmine@udel.edu; phone: 302-831-8872).

The deadline for undergraduate competition entries is 5:00 PM, May 10, 2013.

2013 NABEC Graduate Student Competition

Graduate students in agricultural and biological engineering (or related programs) are invited to participate in the NABEC Graduate Student Competition by submitting an abstract proposal for either an oral or a poster paper presentation by the announced deadline. Competition is for 1) Best Graduate Student Oral Presentation and 2) Best Graduate Student Poster Presentation, as judged by panels. Awards are given to the top three winners in each category, including a certificate and a cash award. Entrants must be current or recently graduated graduate students, and must submit the abstract proposals using the NABEC Call for Abstract Proposals Form by the specified deadline. The total number of participants in the oral competition is limited, therefore, assignments will be prioritized based on time of submission (i.e., first come, first serve basis). Evaluation will be based on established criteria that include both content and presentation. Further information is available at the NABEC web site (nabec.asabe.org).

Deadline for graduate competition entry is February 4, 2013

NABEC Young Engineer of the Year

Do you know a young engineer (industry, government or academic) that deserves recognition due to his/her contribution to the profession? Let us know!!!

Each year NABEC offers an award for Young Engineer of the Year. This award honors NABEC members for outstanding contributions to the advancement of the Agricultural/Biological Engineering Profession. Awards are made on the basis of nominations submitted by colleagues. The award consists of an engraved plaque presented in person at the NABEC Annual Awards Banquet.

Eligibility: Those eligible are NABEC members who have not passed their 40th birthday on July 1 of the year in which they are selected. If you know a young engineer who deserves consideration for this honor or you are urged to submit a nomination for him or her. Nominations will remain active for a period of three years. The nomination should be accompanied by the following documentation:

- a letter of nomination, including date of birth.
- an up-to-date resume for him or her, (not exceeding 2 pages in length).
- a 300 to 500 word narrative suitable for publication and use in the presentation of the award.
- 3 letters of support for the nomination.
- *the nominee **must** be able to attend the conference to receive the award.*

Further information is available on the NABEC web site (nabec.asabe.org).

Nominations and questions concerning the nomination may be directed to:

Anastasia E. M. Chirside

University of Delaware

262 Townsend Hall

531 South College Ave

Newark, DE 19716-2140

E-mail: aemc@udel.edu

Phone: (302) 831-8871

Fax: (302) 831-2469

The deadline for nominations is May 3, 2013

Distinguished Service to NABEC

And for those who gave great service to NABEC? They won't be forgotten!!!

A special award is presented annually to individuals who have contributed outstanding service to NABEC. The award shall consist of a plaque with appropriate inscription and will be presented at the NABEC Annual Awards Banquet. Nominations may be held over for two years. The criteria for the award are: contribute as an officer, local arrangements, program committee, tour arrangements or other significant effort to NABEC; support NABEC by encouraging colleague participation; professional activities in the Northeastern US / Eastern Canada area.

Nominations for the award should be:

- a one page (maximum) completed nomination form,
- a letter detailing the qualifications and specific activities and contributions.

Please use the nomination form which can be found on the NABEC web site, (nabec.asabe.org).

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Deadline for nominations is May 3, 2013

REPORTS

ASABE PUBLICATION COUNCIL REPRESENTATIVE REPORT TO NABEC — Ali Demirci

Following items were discussed during the Publication Council Meeting at the 2012 Annual Meeting in Dallas, TX.

Maynard Herron, Trustee, indicated that it is anticipated that Initiative Funding for 2013 would be available with a February 15, 2013 deadline for submission of proposals.

P-511 Refereed Publications Chair, Harold Thistle, indicated that the M-141 Paper Awards Committee was disbanded and that P-511 will monitor the rules and deal with any paper awards issues that arise.

Donna Hull indicated that mobile apps for *Resource* were being developed so the electronic version could be viewed on iPad and Android devices and that consideration is being given to allow anyone to download the apps and view the full text. She also commented that another issue of *Discover* focusing on careers in agricultural and biological engineering will be published in December.

P-515 Textbooks and Monographs Committee Chair, Kyle Douglas-Mankin, indicated that the committee has some work to do in moving forward on the peer-review of teaching materials approved at the 2011 Annual Meeting. He suggested that teaching materials may be a better option than textbooks for our Society because modules could be combined to meet the diverse needs of departments teaching agricultural and biological engineering.

Donna Hull indicated publications doing well financially:

\$330,000 surplus expected

Site licenses revenue increased by 10% to \$470,000.

Print subscriptions increased 7% for non-members; 8% increased for members.

Highlights of 2012 NABEC

Meetings Council Report — David S. Ross

The Meetings Council met via conference call on September 6, 2012. Mark Zielke of ASABE presented data on meeting sites for 2015 in Louisville, KY; Orlando, FL; and New Orleans, LA. The Louisiana Section is very excited about hosting the 2015 annual meeting in the Marriott there and costs are competitive. Room rates are \$4 less there. Louisville hotel did not reply to questions about any property upgrades by 2015. The Disney property is competitive. David Ross made a motion to select the New Orleans-Marriott bid for 2015; Mike Brugger of Ohio seconded the motion and it passed.

David Ross made a second motion that Mark Zielke start work on bids for the 2016 AIM and that the Orlando–Disney Property be considered for 2016 along with pursuing the interest by a Nashville hotel in hosting our Annual Meeting. Mike Brugger of Ohio seconded the motion and it passed. Another site will be checked. Another conference call is being planned for November to discuss bids for 2016.

In 2013 the federal room rate of \$99 will be available at the Sheraton but not at the Westin. ASABE does not receive credit for these room uses nor get a rebate on them. A \$10 rebate goes to ASABE on other rooms used, per the contract.

There will be an invitation to students to participate on technical and other committees at the 2013 Annual International Meeting (AIM) in Kansas City, MO. Information will be included in meeting packets.

The 2014 ASABE AIM is in Montreal, Quebec with the Canadian society, CSBE/SCGAB. ASABE has little control of arrangements of this meeting.

Several conferences had requested ASABE to endorse their conferences which means that ASABE will include notices of their conferences in news releases but no financial responsibility. After discussion David Ross moved that these endorsements be approved. Scott Pryor seconded the motion and it passed.

Sponsorship (with financial responsibility) was discussed for two conferences. The requests did not detail the financial responsibility of ASABE and were returned for more information. These included a Climate Change Symposium in IL in 2015 and Forestry Conference in Raleigh, NC.

Important Deadlines for the 2013 AIM were announced by Sharon McKnight and follow this report. A Call for Papers will go out soon and abstracts will be accepted in Abstract Central.

2013	Kansas City, MO	July 21 – 24	
2014	Montreal, Quebec	July 12 – 17	with CSBE/SCGAB
2015	New Orleans, LA	July 25 – 30	
2016	Orlando, FL or Nashville, TN	in late July possibly	

NABEC financial statement

Northeast Agricultural/Biological Engineering Conference
 A Community of ASABE, District 1
 2012 FALL MEETING FINANCIAL STATEMENT
 June 14, 2012 to September 17, 2012

Assets as of June 14, 2012

Capital One Bank (6/14/2012)	\$18,649.06
Bank of America (Account # 5866) (06/30/2012)	<u>\$3,453.19</u>
	\$22,102.25

Receipts

Interest on Chevy Chase Bank Savings	<u>\$6.66</u>
	\$6.66

Expenditures

2012 Undergraduate Student Design/Paper Awards	\$675.00
2011 Undergraduate Student Presenter Travel Expenses	\$300.00
2011 ASABE Honor Certificates — Students --	
2011 Graduate Student Competition – oral/poster cash awards	\$900.00
2011 ASABE Honor Plaques — Chair, distinguished service and Young Engineer	<u>\$372.17</u>
	\$2,247.17

Assets as of September 17, 2012

Capital One Bank (9/17/2012)	\$16,455.72
Bank of America (Account # 5866) (08/31/2012)	\$4,081.02
Outstanding 2012 checks – 5 checks	<u>(\$675.00)</u>
	\$19,861.74

Money Transfers

Transferred \$2,200.00 from Capital One Bank to Bank of America on July 13, 2012

The most recent Capital One Bank statement showed interest rates of 0.15% for three months.

New business checking account (Bank of America) must maintain a balance of \$3,000.00 to avoid fees.

Fed. I.D. No. 52-1503913

Reported by David S. Ross, Treasurer (1986-2010; 2011-2012)

NABEC 2012-2013 Committees

Officers of the Planning Committee

<u>Chair</u> Heather Smeltz USDA NRCS 2120 Cornwall Road, Suite 4 Lebanon, PA 17042 (717) 274-2597, ext. 126 Heather.Smeltz@pa.usda.gov	<u>Chair-Elect (Honors/Awards)</u> Anastasia Chirnside University of Delaware Townsend Hall, 531 S. College Ave. Newark, DE 19716-2140 (302) 831-8871 aemc@udel.edu	<u>1st Vice-Chair (Program)</u> Su-Ling Brooks Dalhousie University Dept of Process Engineering & Applied Sciences P.O. Box 1000 Halifax, NS, Canada B3J 2X4 (902) 494-6482 Su-Ling.brooks@dal.ca	<u>2nd Vice-Chair (Newsletter)</u> John Arnold Ohio State University 1328 Dover Rd Wooster, OH 44691 (330) 287 1367 arnold.596@osu.edu
<u>Secretary</u> Valerie Orsat Department of Bioresource Eng. McGill University (514) 398-7680 valerie.orsat@mcgill.ca	<u>Secretary-Elect</u> Jude Liu Penn State 227 Ag. Engineering Bldg. University Park, PA 16802 (814) 863-6844 jliu@enr.psu.edu	<u>Treasurer</u> Bill Ritter University of Delaware Townsend Hall 531 S. College Ave. Newark, DE 19716-2140 (302) 831-2540 william.ritter@udel.edu	<u>Past Chair</u> Michael Ngadi Department of Bio- resource Eng McGill University (514) 398-7779 michael.ngadi@mcgill.ca

Other Members of the Planning Committee

<u>District I Representative</u> Christina Ratti Université Laval Département des sols et de génie agroalimentaire Sainte-Foy, Québec, Canada G1K 7P4 Phone: 418-656-2131 x4593 cristina.ratti@sga.ulaval.ca	<u>Meetings Council Rep.</u> David S. Ross University of Maryland Environmental Sci. and Tech. College Park, MD 20742-2315 (301) 405-1188 dsross@umd.edu	<u>Publications Council Rep.</u> Ali Demirci 231 Ag. Eng. Bldg. University Park, PA 16802 (814) 863-1098 demirci@psu.edu	<u>MDC Rep.</u> Michael Ngadi Department of Bio- resource Eng McGill University (514) 398-7779 michael.ngadi@mcgill.ca
<u>Standards Council Rep.</u> Jude Liu Penn State 227 Ag. Engineering Bldg. University Park, PA 16802 (814) 863-6844 jliu@enr.psu.edu	<u>Undergrad Student Competi- tion & Program Committee</u> Carmine Balascio Bioresources Engineering University of Delaware Newark, DE 19717-1303 (302) 831-2468 carmine@udel.edu	<u>Webmaster</u> Satyanarayan R.S. Dev Dept. of Bioresource Engineer- ing McGill University (514) 576-0163 Satyanarayan.dev@gmail.com	<u>Newsletter editor</u> Paul Heinemann 250 Ag. Engineering Bldg. University Park, PA 16802 (814) 865-2633 hzh@psu.edu
<u>Parliamentarian</u> Robert Thompson USDA-NRCS 356 Mountain View Drive Colchester, VT 05446 (802) 951-6796 ext. 232 Bob.thompson@vt.usda.gov	<u>Local host NABEC 2013</u> Andrew W. Wedel McLanahan Corp, Holidaysburg, Pennsylvania (814) 695-9807 awedel@mclanahan.com	<u>Local host NABEC 2014</u> Timothy Rennie Kemptville Campus - University of Guelph 830 Prescott Street Kemptville, Ontario, K0G 1J0 Phone: 613-258-8336 ext 61286 tim.rennie@uoguelph.ca	<u>Historian</u> Bill Ritter University of Delaware Townsend Hall 531 S. College Ave. Newark, DE 19716-2140 (302) 831-2540 william.ritter@udel.edu
<u>Program Committee</u> Carmine Balascio Bioresources Engineering University of Delaware Newark, DE 19717-1303 (302) 831-2468 carmine@udel.edu	<u>Program Committee</u> Valerie Orsat Department of Bioresource Eng. McGill University (514) 398-7680 valerie.orsat@mcgill.ca	<u>Program Committee</u> Litha Sivanandan West Virginia University PO Box 6031 Morgantown, WV 26506 (304)293-7684 Litha.Sivanandan@mail.wvu.edu	<u>Program Committee</u> Robert Thompson USDA-NRCS 356 Mountain View Drive Colchester, VT 05446 (802) 951-6796 ext. 232 Bob.thompson@vt.usda.gov