

# **History of Agricultural Engineering at Penn State 1976 – 2012**

Department renamed  
Agricultural and Biological Engineering  
September, 1990



**The Pennsylvania State University  
College of Agricultural Sciences  
College of Engineering  
University Park, Pennsylvania**

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# **History of Agricultural Engineering at Penn State**

**Volume 2**

**1976 – 2012**

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## **Department History**

### **Significant Events**

- June 1, 1976 H. V. Walton became Head of the Department of Agricultural Engineering.
- February 2, 1983 Master of Agriculture degree program in Agricultural Mechanization approved.
- July 31, 1985 H. V. Walton retired as Head of the Department of Agricultural Engineering. H. B. Manbeck appointed Acting Head.
- August 1, 1985 Dennis E. Buffington appointed Head of the Department of Agricultural Engineering.
- 1985 College of Engineering initiated a Co-op Program giving students the option of working in industry for three non-consecutive semesters.
- August 25, 1986 Minor in Agricultural Engineering approved.
- March 13, 1987 Minor in Agricultural Mechanization Technology approved.
- July 1, 1988 Brent Fritz Memorial Laboratory dedicated.
- June 17, 1989 Harvey Corson Electronics Instrumentation Laboratory dedicated.
- Summer 1990 Agricultural Engineering Program included a General Option and a Food Engineering Option.
- November, 1990 Department named changed to Agricultural and Biological Engineering.
- November, 1990 Agricultural Mechanization program (AG M) changed name to Agricultural Systems Management and Technology (ASMT).
- March 18, 1994 Agricultural Systems Management and Technology program (ASMT) changed name to Agricultural Systems Management (ASM).
- March 18, 1994 Agricultural Engineering Graduate program (Ag E) changed name to Agricultural and Biological Engineering (ABE).
- March 15, 1996 Agricultural Engineering program (Ag E) name changed to

Agricultural and Biological Engineering (ABE).

- March 15, 1996 Agricultural Engineering Minor name changed to Agricultural and Biological Engineering.
- July 1, 1998 R. E. Young appointed Head of the Department of Agricultural and Biological Engineering.
- August, 2001 Initiated two new, 2-credit courses; one focused on Leadership and the second focused on Communication, that replaced the senior seminar (ABE 490) and Technical Writing (ENGL 202) in Spring 2003.
- Spring, 2002 Initiated the Off-Road Equipment minor.
- January 2005 Agricultural and Biological Engineering program renamed its two options to be Agricultural Engineering and Biological and Food Engineering.
- January 18, 2008 Agricultural and Biological Engineering program was renamed Biological Engineering.
- July 1, 2010 P. H. Heinemann appointed head of the Department of Agricultural and Biological Engineering.
- August, 2010 Natural Resource Engineering Option added to the Biological Engineering major; Biological and Food Engineering option renamed Food and Biological Process Engineering.
- July 1, 2012 Wood Products Faculty from the former School of Forestry were welcomed into the Department.

## **Redirecting the Department Focus**

The beginnings of Agricultural Engineering as a profession and the beginning of what became the Department of Agricultural Engineering are outlined in Volume I of this history.

From the 1970s until 1990 few changes occurred in the academic Agricultural Engineering Program. There were courses that focused on machinery, structures, soil and water, processing and food. Students, by selecting electives developed strength in one or more of these areas. In 1990 the engineering academic program was divided into two Options; the General (or Agricultural Engineering) Option and the Food Engineering Option. Students entering the major were required to select one of these two options and the course work required for each option differed so that students in each of the two options developed strengths appropriate to the selected option.

## **Emergence of Biological Engineering**

Students in the Agricultural Engineering program always understood that Agricultural Engineers appreciated the biological concepts related to the engineering principles being taught. In a few cases, namely North Carolina State University in 1965, Mississippi State University in 1967, and University of Guelph in 1969, the program and/or department name was changed to include some version of the word "biology". Essentially all other agricultural engineering programs and departments considered biology to be an un-named, implicit (but important) part of the curriculum.

In the early 1990s, under the National leadership of pioneers such as ASAE President Carl Hall, ASEE members Denny Davis and Art Johnson, and University of California faculty member Roger Garrett, a US Department of Agriculture project developed a series of workshops with the focus of creating and lending credence to a Biological Engineering curriculum. Simultaneous with these efforts, there was a decline in the numbers of students seeking degrees in Agricultural Engineering. These two factors led to the emergence of the Biological Engineering effort. New names were given to the subdivisions of the Ag E curriculum including Biotechnical Engineering, Bioenvironmental Controls, Machine Systems Engineering, Bioprocess Systems Engineering, Natural Resources Engineering, and Food Engineering. Lastly, course outlines were developed for a suite of new courses that were considered necessary for Biological Engineers to have completed.

As a result of this effort at the National level, with leadership provided by ASAE, Agricultural Engineering Departments across the nation began to consider if and how they would be a part of this new Biological Engineering movement. At Penn State the faculty took the first step towards Biological Engineering by changing the Department's name to Agricultural and

Biological Engineering in November of 1990. In March of 1994 the name of the graduate program was changed to Agricultural and Biological Engineering and in March 1996 the name of the undergraduate Agricultural Engineering (Ag E) program was changed to Agricultural and Biological Engineering (ABE). In January 2008, the name of the undergraduate Agricultural and Biological Engineering (ABE) program was again changed to Biological Engineering (BE). The last change to date was in August 2010 when the Biological Engineering program added a third option to the program giving students in the Biological Engineering program the option of choosing either the “Agricultural Engineering”, the “Food and Biological Process Engineering”, or the “Natural Resource Engineering” Option.

With the emergence of Biological Engineering, several Departmental courses were changed and new courses in Biological Systems and Engineering Elements of Biochemistry and Microbiology were added to the curriculum along with appropriate senior-level design courses. The graduates from the engineering program are listed in Appendix 3.

## **College of Agricultural Sciences Changes and Changes within the Agricultural and Biological Engineering Department**

July 1, 2012 – The College of Agricultural Sciences restructured thus reducing the number of academic departments from 12 to 9. The Department of Agricultural and Biological Engineering was not affected greatly. However, four faculty members who work in the wood products area moved from the School of Forest Resources (renamed Ecosystems Science and Management, ESM) to Agricultural and Biological Engineering.

These four faculty members are:

Nicole Brown, Associate Professor

John Janowiak, Professor

Paul Smith, Professor

Judd Michael, Professor (maintaining a joint appointment between ABE and ESM)

## **Agricultural Mechanization**

Begun in the early 1960s, the Agricultural Mechanization program was a College of Agricultural Sciences undergraduate program designed for students who wished to develop strength in three major areas; (1) basic sciences of mathematics, physics, chemistry and biology, (2) engineering technology with courses in machine systems, building environments, natural resources, food technology, and processing, and (3) business. Since its inception this program has developed graduates with special abilities to work in all areas of the agricultural industry. Over the years a



large majority of these graduates have found employment in the machinery industry, but many have been successful in other areas of agriculture.

After Dave Beppler's retirement in 1986, James Hilton assumed the leadership role of the Agricultural Mechanization program. Around 2000 Jim relinquished this responsibility to Dennis Buckmaster, who provided leadership until 2006 when he left Penn State. For about two years Paul Heinemann provided leadership to this program until Jude Liu assumed this role in 2010.

Over the years, mostly in response to political pressures, the Agricultural Mechanization (Ag M) program has evolved primarily in name only. In November of 1990 the name was changed to Agricultural Systems Management and Technology (ASMT). In March 1994, the term "Technology" was dropped and what started as the Ag M program in the early 1960s became the Agricultural Systems Management (ASM) program. As the program took on these various names, the content and intent of the program remained primarily the same as described above.

This program has provided many students with viable agricultural based educations that have served them well throughout their careers. Those who have graduated from these programs are listed in Appendix 4.

## **Communication and Leadership**

In about 1999, Joseph Irudayaraj and James Hilton wrote a USDA project that argued that graduates from the Agricultural and Biological Engineering Department needed enhanced instruction in communication and leadership. The funding of this project resulted in the creation of two new courses, both required of all graduates from both the Agricultural and Biological Engineering (ABE now BE) and Agricultural Systems Management (ASM) programs. These two courses, taught from their inception by Ronald Johnson from the Smeal College of Business, emerged in 2006 after a decade of changes into the courses we have today. The first course, BE/ASM 391 Contextual Integration of Communication Skills for the Technical Workplace is a 2-credit course taught during Spring Semester of the junior year. The second course, BE/ASM 392 Contextual Integration of Leadership Skills for the Technical Workplace is a 2-credit course taught during the fall semester of the senior year. These two 2-credit courses replaced a required 3-credit Technical Writing course (ENGL 303) and a 1-credit Senior Seminar (ABE 490). These courses have been well received by the students and have been highly endorsed by the agencies and companies who have hired our graduates.

## **Turfgrass and Agricultural Equipment (TAE) Service Technician Certification Program**

The Turfgrass and Agricultural Equipment Service Technician Certificate Program developed as a result of industry connections of James W. Hilton in 2003. A shortage of skilled technicians to maintain golf course equipment, as well as the contemporary agricultural tractors and machinery, gave further impetus for the program to be commenced. As a result of industry input, the two-year certificate program was formalized with four intensive 8-week sessions plus an internship requirement. Curriculum offerings included: engines, hydraulics, power transfer, electronics, electro-hydraulics, hydrostatics, irrigation, turf reel mowers and reel grinding, welding, metal fabrication, shop management, agronomy, business concepts/applications, personnel management, and diagnostics and troubleshooting.

Student successes have included employment at major golf clubs, smaller golf facilities, agricultural equipment dealerships, equipment rental facilities, irrigation design firms, farming, municipal grounds programs, and landscaping firms.

With faculty re-assignments, research, and retirements plus Department renovations and re-focus, the program ended in March 2011. Thirty-five quality technical-minded individuals had been mentored toward their entry into the field of turfgrass and agricultural equipment service.

Faculty who developed and taught the TAE program are:

Dr. James W. Hilton, Program Director, 2003-2011

Dr. Doug Schaufler, Instructor, 2003-2009

Dr. Aaron Yoder, Instructor, 2003-2009

William C. Harshman, Assistant Program Director and Instructor, 2003-2011

Jeff Downing, Instructor, 2009-2010

Bob Wrye, Instructor, 2009-2010

### **Penn State Omicron Chapter of Alpha Epsilon Honor Society for students in Agricultural Engineering and related engineering programs**

The National Organization of Alpha Epsilon was founded in 1959 at the University of Missouri. Alpha Epsilon Honor Society's main objectives are: 1) to promote the high ideals of the engineering profession, 2) give recognition to those agricultural and biological engineers who manifest worthy qualities of character, scholarship and professional attainment, and 3) to encourage and support improvements in the Agricultural and Biological Engineering profession.

The Penn State Omicron Chapter was chartered in 1969 and seeks to honor students in agricultural engineering and related engineering programs, who are duly registered in the engineering curriculum. The selection of members is based on excellent engineering ability, scholarship, character, and leadership.

- Juniors who have a cumulative scholastic rank in the upper quarter of their class in the College of Engineering may be elected for membership after the first month of their junior year.
- Seniors who have a cumulative scholastic rank in the upper third of their class in the College of Engineering may be elected for membership after the first month of their senior year.
- Graduate students who have a cumulative grade point average of 3.25 or higher may be elected for membership after the completion of at least 7 course credits.
- Engineers and scientists who have made important contributions to the Department of Agricultural and Biological Engineering or to the Agricultural and Biological Engineering profession may be inducted into Alpha Epsilon as honorary members.

The Penn State students who have been initiated into the Omicron Chapter are listed in Appendix 9.

## **Appendix 1**

### **Department Faculty**

F. W. Peikert	Retired as Head of the Department, August 1975.
J. M. Hoover	Appointed Adjunct Assistant Professor, September 1, 1975.
W. J. Elliott	Resigned, September 30, 1975.
D. W. Johnson	Appointed Instructor, January 11, 1976.
H. V. Walton	Appointed Head of the Department, June 1, 1976.
D. J. Murphy	Appointed Instructor, June 15, 1976.
O. A. Kimmel	Retired July 1, 1977.
J. W. Hilton	Appointed Assistant Professor, June 1, 1978.
G. R. Bodman	Appointed Assistant Professor, June 30, 1978.
J. W. Garthe	Appointed Instructor, July 1, 1978.
N. N. Mohsenin	Resigned June 30, 1979.
R. A. Aldrich	Resigned September 1, 1979.
M. J. Kern	Appointed Instructor September 1, 1979.
H. B. Manbeck	Appointed Professor July 1, 1980.
D. J. Meyer	Appointed Assistant Professor July 1, 1980.
S. K. Sastry	Appointed Assistant Professor September 18, 1980.
A. R. Grout	Retired as Professor Emeritus January 1, 1981.
H. D. Bartlett	Retired as Professor Emeritus May 1, 1981.
W. R. DeTar	Resigned June 30, 1981.
N. H. Wooding	Retired as Professor Emeritus January 1, 1982.
D. E. Brune	Appointed Assistant Professor January 25, 1982.
R. E. Graves	Appointed Associate Professor March 1, 1982.

P. N. Walker Appointed Associate Professor March 15, 1982.

T. G. Pierson Appointed Lecturer June 1, 1982 to August 31, 1982 and June 1, 1983 to August 31, 1983.

R. A. Keppeler Retired June 30, 1982.

S. K. Sastry Transferred to Department of Food Science March 1, 1983.

K. M. Mancl Appointed Assistant Professor September 1, 1983.

V. M. Puri Appointed Assistant Professor October 27, 1983.

J. A. McCurdy Retired as Professor Emeritus January 1, 1984.

K. Q. Stephenson Retired as Professor Emeritus January 1, 1984.

R. E. Phillips Appointed Assistant Director, State Program Leader for Extension June 1, 1984.

C. A. Zuritz Appointed Assistant Professor August 10, 1984.

H. A. Elliott Appointed Associate Professor August 15, 1984.

J. M. Carson Appointed Assistant Professor January 2, 1985.

H. V. Walton Retired June 30, 1985.

D. E. Buffington Appointed Professor and Head August 1, 1985.

K. M. Mancl Resigned April 20, 1986.

W. L. Kjelgaard Retired June 30, 1986.

D. C. Beppler Retired June 30, 1986.

M. E. Schroeder Retired as Professor Emeritus June 30, 1986.

D. E. Brune Resigned January 1987.

P. D. Robillard Appointed Assistant Professor July 1, 1987.

J. M. Hamlett Appointed Assistant Professor September 28, 1987.

T. G. Pierson Appointed Instructor 1987.

R. C. Brandt Appointed Lecturer March 1, 1988.

P. H. Heinemann Appointed Assistant Professor September 1, 1988.

D. R. Buckmaster Appointed Assistant Professor January 23, 1989.

J. M. Carson Resigned March 31, 1990.

M. D. Shaw Retired June 31, 1991.

D. J. Meyer Resigned August 9, 1991.

S. P. E. Persson Retired August 31, 1991.

P. M. Anderson Retired December 31, 1991.

D. R. Daum Retired June 30, 1994.

C. T. Morrow Retired as Professor Emeritus June 1996.

C. A. Zuritz Resigned 1993.

E. F. Wheeler Appointed Assistant Professor November 1, 1994.

R. D. Shannon Appointed Assistant Professor August 15, 1995.

D. E. Buffington Resigned as Head of Department June 30, 1996.

H. B. Manbeck Appointed Interim Head July 1, 1996.

D. G. Wagner Appointed Assistant Professor August 1, 1997.

J. Irudayaraj Appointed Assistant Professor April 1, 1998.

R. E. Young Appointed Professor and Head July 1, 1998.

A. Demirci Appointed Assistant Professor July 1, 1999.

A. M. Yoder Appointed Instructor June 1, 2001.

R. G. Johnson Appointed Instructor August 1, 2001.

D. Schaufler Appointed Instructor 2001.

R. D. Shannon Appointed Program Coordinator of Environmental Resource Management (ERM) program August 2000.

H. B. Manbeck Retired as Distinguished Professor Emeritus January 31, 2004.

T. Richard	Appointed Associate Professor October 1, 2004.
J. Irudayaraj	Resigned March 31, 2005.
R. S. Thomas	Appointed Instructor January 2006.
D. R. Buckmaster	Resigned August 31, 2006.
W. G. M. Schneider III	Appointed Instructor May 1, 2007.
J. Catchmark	Appointed Associate Professor October 1, 2007.
J. Liu	Appointed Assistant Professor December 1, 2007.
T. Richard	Appointed Director of the Penn State Institute for Energy and Environment January 1, 2008.
D. Ciolkosz	Appointed Extension Associate August 1, 2008.
H. Salis	Appointed Assistant professor January 1, 2009.
R. E. Young	Retired as Department Head June 30, 2010.
P. H. Heinemann	Appointed Department Head July 1, 2010.
M. Marshall	Appointed Instructor July 1, 2010.
P. N. Walker	Retired as Professor Emeritus August 31, 2010.
J. W. Garthe	Retired June 30, 2011.
J. W. Hilton	Retired as Associate professor Emeritus June 30, 2011.
A. R. Jarrett	Retired as Professor Emeritus December 31, 2011.
D. E. Buffington	Retired as Professor Emeritus June 30, 2012.
R. E. Graves	Retired as Professor Emeritus June 30, 2012.
Nicole Smith	Appointed Associate Professor July 1, 2012□
John Janowiak	Appointed Professor July 1, 2012.
Paul Smith	Appointed Professor July 1, 2012.
Judd Michael	Appointed Professor July 1, 201

## **Appendix 2**

### **Technicians, Assistants, and Administrative Support Staff**

#### **Technicians and Assistants**

R. Bock	E. R. Cieslar
N. Davitt	K. DeMarco
J. Drogee	L. Fetzer
T. Foster	J. H. Gummo
I. Hansen	W. Harshman
L. Heard	D. Hill
L. S. Jodon	G. Kann
S. Knight	T. Laird
K. Lebowsky	B. Macafee
P. A. Mark	M. Marshall
W. K. Moyer	R. Rao
A. Spangler	S. Steel
D. Topper	P. Topper
M. A. Wittman	H. Yi

#### **Administrative Support Staff**

C. Bloom	C. Butts
T. Confer	M. Connelly
D. Diehl	M. Drake
C. Eckley	B. Hazel
B. Hill	D. Holt
B. Holcolm	M. Hull
P. Irvin	S. Kelleher
A. Maney	P. Newel
W. Nyman	R. Rotz
D. Stout	M. Tourinsky
A. Trella	L. Zellers



## Appendix 3

### Engineering Graduates

\*Indicates M.S. Degree, \*\*Indicates Ph.D. Degree

#### Agricultural Engineering (Ag E)

1976	Robert E. Bos*	Donald R. Cantore
	Eric S. George	Fred A. Fox, Jr.
	Michael J. Green*	Steven H. Gluck
	Larry D. Hall	Timothy P. Hoover
	Daniel E. Hammett	Gary L. Kelso
	Richard A. Herring	Amnon N. Manor**
	Walter Hosea Latshaw	Alan H. Merbaum
	Gerald D. Lawruk	Fallak S. Sial**
	Franklin A. Oellig	Mohinder Singh*
	Ramesh Pall*	Barry R. Skiles
	Sterlin M. Rebuck*	Bernard E. Smith
	John M. Sceiford	Terry E. Snoddy
	James G. Schenck Jr.	Ted E. Stewart
	James F. Willats	Thomas R. Stottlemeyer
	John Zaganaylo III	Djoko Suharto**
		Joseph Tecza*
		Gary R. Tohill
		Kathleen Mailki White
		Thomas H. Wilson
1977	Larry W. Aaron	
	Duane R. Aurand	
	Jon M. Carson	1979
	Blaine K. Delaney	Marjorie J. Ballina
	William H. Doll, Jr.	James E. Biddle, Jr.
	Randy A. Greaser	Betty L. Brockett
	Carl A. Johnson	Thomas K. Brosius
	Timothy J. Krall	Joseph K. Edwards
	Michael R. Lorenz*	Darlene S. Gluck
	David C. Moser	David A. Haines
	Royann J. Petrell*	Ronald R. Hockensmith
	Gary D. Rimmey	Mark J. Kern*
	Karen Travis Rimmey	William J. Liberato
	C. Alan Rotz**	Gerald W. Longenecker
	Peter J. Vanderstappen	Stephen T. Mahan
	Kurt M. Walker	Patrick D. McCloskey
	Emil C. Wunz*	John E. Messenger
	James S. Zahner	William F. Milburn*
		Jitendra P. Mittal**
		Donald R. Murray
1978	Tengku Ahmad*	George C. Musser
	Zulkifli B. Alias*	Jeffrey J. Postal
	Javier A. Arce*	Chris M. Rosenbaum
	Kevin W. Beaver	Matthew J. Smith
	Michael Bedis	Michael A. Smith
	George Campbell	Thomas R. Stahlnecker

	Brian S. Walker		Dale A. Lehman
	Karen E. Warnaka		Fernando J. Leon
	Kenneth E. Wolfe Jr.		Joseph M. McDonough
1980	Carl M. Biddle, II		Michael L. McMullen
	Wayne M. Bogovich		Michael A. Napoletano
	Harold E. Brosius		Craig W. Neal
	Mohamed B. Daud*		Mark E. Nieweg
	Steven E. Davis		Craig A. Patterson
	Robert L. Doneker		Jeffrey R. Phillips
	David S. Dum		Susan M. Putman
	William M. Elliott*		Russell E. Raney
	Gregg A. Eshelman		David O. Roe
	Eileen Fabian		Thomas P. Ross
	Jonathan C. Garsey		Robert E. Scheideman
	Mark R. Lehner		Wendy A. Schmidt
	Gerald W. Longenecker*		Dennis R. Toomey
	Karen Z. Mahan		Stephen L. Weise
	Alireza Malek*		Randolf L. Whisler
	Samuel L. McLaughlin		William W. Zeiders
	Ramesh Pall**	1982	William A. Babacz
	David L. Roth		David E. Braun
	James M. Schuler		Linda D. Cluck
	Timothy M. Skergan		Ashis K. Datta**
	Karl A. Snyder		Michael P. Dillen
	Lodovico Spinabelli Jr.		Kyle F. Dresden
	Jeffrey L. Suhr		John Einfalt
	Paul C. Sweetwood*		Randy E. Fisher
	Bruce A. Telega		Emil A. Galis
	Todd W. Williams		Paul H. Heinemann*
	Craig J. Wilson		Morgan T. Hoge II
1981	Patrice E. Anderson		Albert P. Kermiet, Jr.
	Badruddin Badrashi*		Brian G. Leib
	Gary C. Blough		Richard P. Lukas
	Kenneth R. Brockett		Timothy Matechak
	Joseph J. Carabetta		Robert E. Mellott
	Steven M. Charles		William F. Milburn**
	Janice McClure		Peter G. Mora
	David H. Cowperthwait		Mark C. Mummert
	Elaine D. Dell		Larry M. Muzzelo
	Timothy C. Eisenhart		Michael G. Null
	Lyle S. Fisher		Leo F. Petrokonis
	Neal D. Hallee**		Cindy P. Fairchild
	Michael J. Hills		Jeffrey R. Phillips*
	Steven R. Johnson		Philip E. Risser
	Christopher D. Jones		Bernard T. Ryan
	Frank M. Kislán*		Thomas K. Schenke
			Glen R. Scott, Jr.

Abolghasem Shahbazi-Markid\*\*

Dennis P. Smith  
Jeffrey L. Suhr\*  
Ahmad Tabatabaifar  
James K. Thomas  
Jeffrey L. Thomas  
Stephen R. Weaver  
James J. Wendrick  
Roy A. Wetzel  
Henry L. Wilusz  
Joseph M. Zulovich

Walter E. Snavley  
Terry L. Starr  
Edward W. Stas  
Gary M. Svez  
Robert J. Thompson  
Ezra Tice\*  
Scott Q. Turn  
Nevin W. Wagner  
Thomas H. Weber  
Mark W. Zuber

1983

Edmond H. Albright  
Richard A. Alexander  
Nels C. Bergstrom  
Kurt S. Borgoyon  
Philip E. Carr  
Edward M. Charney  
Samuel S. China\*  
Bernard E. Coval  
Craig H. Davis  
David C. Drum  
Brian K. Emrich  
Lyle S. Fisher\*  
Sandra L. Foose  
Stephen I. Forgas  
Emil A. Galis\*  
Michael J. Good  
Kenneth J. Guffey  
Nancy S. Hoffman  
Sidney L. Hull  
Douglas P. Ingle  
Stephen R. Johnson\*  
Dale A. Lehman\*  
Samuel L. McLaughlin\*  
Joseph J. Miller  
Teresa G. Morris  
John A. Moyer  
Mark C. Mummert\*  
Larry M. Muzzelo\*  
Mark D. Myers  
Billy A. Negley  
James K. Newman  
Edward F. Orris, Jr.  
Arthur H. Reede, Jr.\*  
Timothy R. Royer  
Robert E. Scheideman\*  
Jon P. Schultz

1984

Andrew L. Blank  
Glyn R. Boone  
Timothy J. Bowser  
David A. Brown  
Thomas R. Chewning  
Mary B. Cohan  
Alan E. Daum  
Matthew Dolecki  
Gene E. Dougherty  
Harry Dravecky  
Peggy S. Duffy\*  
Roger K. Ebba  
Brian D. Eberie  
Sean E. Gill  
Donald M. Hedgeland  
Gregory D. Jennings  
Michael J. Kelmel  
Ann M. Kyper  
D. Kevin Landfried  
Bruce D. Lindsey  
Daniel E. Line  
Kurt F. Martin  
Scott E. McDowell  
Vincent D. McHenry  
Gary L. Miller  
Felipe Molina  
Richard J. O'Donnell  
Randy R. Patarcity  
Luis R. Perez-Alegria\*  
Brian S. Peterman  
Jeffrey S. Ross  
George A. Skovran  
Gary V. Snyder  
Rodney M. Snyder  
Robin F. Stas  
Ahmad Tabatabaifar\*  
Bruce A. Telega\*

	<p>Jerry A. Valecko  George A. Volinsky  Gareth A. Wallace  David P. Waterman  William H. Weist  Roy A. Wetzel*  Patrick M. Wood  Joseph M. Zulovich*</p>		<p>Timothy J. Bowser*  Wayne A. Carvell  Michael W. Clark  Marcia G. Donmoyer  Harold J. Dubensky*  William R. Farwell  Wesley E. Garrod  Kenneth J. Guffey*  William J. Hutzel  Gregory D. Jennings*  Kenneth R. Keen  Joseph W. Labant, Jr.  Daniel E. Line*  Kevin M. Lynch  Dwayne M. McGrody  Scott E. Morley  Stephen P. Perschke  Brian L. Roy  Robin F. Stas*  Duane A. Stine</p>
1985	<p>Brian S. Baker  Shella A. Bloom  Paul J. Boxler  Christopher M. Branda  Scott B. Carl  Frederick L. Charles  Harold J. Dubensky  Vincent J. Farrell  Michael L. Fischer  James H. Freiss  Jeffrey A. Friend  Judith M. Greer  Jere W. Grube  Kevin W. Kiedaisch  James F. Kjelgaard  Aaron N. Lepro  Kyle R. Mankin  Martin K. Megnin  Joseph K. Miller  Rory A. Miller  Edgar G. Murakami**  Timothy J. Orr  Elizabeth A. Rheingans  Patrick O. Richie  Jude D. Schlimm  Jon P. Schultz*  Richard M. Smucker  Karen K. Sobka  Christian Vinten-Johansen*  Lawrence E. Walker  Philip W. Wursta  Thomas C. Wurster  Qiang Zhang*</p>		
		1987	<p>Glyn R. Boone*  Craig A. Carlson  Thomas A. Cincotta  Glenn J. Eby  James E. Eisenbrown  Dominic A. Galassi  Robin M. Potter*  Kevin J. Kelly  Paul E. King  Thomas M. Levine  Kyle R. Mankin*  Luis R. Perez-Alegria**  Rita F. Purnell  Jack F. Rae  John D. Ross  Terri T. Ruch  Thomas Steen  Robert W. Sweppenheiser II  Joseph W. Webb  Ronald L. Welling*  Bradley W. Wright*  Qiang Zhang**</p>
1986	<p>Glenn M. Andrews  Edward J. Baranski, Jr.  Jeffrey E. Bell  Nels C. Bergstrom*  Randall G. Bock</p>		
		1988	<p>Michael P. Berg*  Donald L. Brough  Michael R. Corrigan</p>

	Eric S. Fellon		Dirk A. Wahanik
	Wesley E. Heisley		Michael J. Weiland
	John C. Henry		
	Michael A. Hulzinga*	1991	Krista L. Cessna
	Janice McClure**		Wade W. Chamberlain
	Martin K. Megnin*		Theng M. Cheam
	Gary S. Mescavage		Christopher R. Daubert
	Michael R. Raney*		Lewton A. Deichert
	Roy F. Stevenson		Dennis J. Gustafson
	David F. Troxell		Mark J. Heebner
	Steven A. Weinhold		Leon W. Heisey
	Donald R. Whitenight		J. David Keener
1989	Edelberto R. Alcairo*		Eric D. Lowe
	Randall G. Bock*		C. Patrick Maggi
	Robin C. Brandt		Paul J. Manns
	Robin C. Brandt*		William A. Meacock
	Robert D. Edwards Jr.		Scott L. Merritt
	Brian L. Fischbach		Patricia A. Mitchell
	Susan N. Frazier		Stephen R. Polloni
	Andrew C. Hrynczyszyn		Lester O. Pordesimo**
	William J. Hutzel*		Rugang Qi*
	Louis A. Kopczyk		Mohamad R. Razavi
	Jean M. Kruis		Christine A. Retherford
	Aaron Leakemariam		Patrick O. Richie*
	Yanbin Li**		Scott W. Sipple
	Matthew J. McCoy		Timothy S. Stombaugh*
	Rita F. Purnell*		Yang Tao**
	Timothy S. Stombaugh		Donald R. Whitenight*
	Girish Subramaniam*		Dennis P. Whitney
	William J. Zacharias		Matthew P. Zeigler
1990	Sharif H. Almashat*	1992	Stephen A. Chordas
	Kevin M. Brannan		Jennifer L. Deichert
	David E. Braun*		Crile Doscher Jr.*
	Donald L. Brough*		Brian W. Engle*
	Joel L. Cuello*		Lawrence A. Fennessey
	Brian W. Engle		Mark O. Gardner
	Larry S. Engle		Bryce D. Good
	Mark F. Field		Shella R. Hackinson
	Brian T. Linvill		Douglas W. Hamilton**
	Brian D. Long		Thomas E. Herlihy*
	Renfu Lu**		Khoa D. Huynh
	Cecilia M. Partsch		Sunil Kamath*
	Timothy W. Riegel		Christine K. Maggi
	Daniel P. Schofer		Ronaldo G. Maghirang**
	Henry L. Seidel		Christopher J. Novosad
	Max A. Stanisch		Cecilia M. Partsch*
	Roy F. Stevenson*		Tara L. Romano

- Brian G. Rupp  
James P. Shedlauskas  
Matthew R. Smith  
Philip J. Squire\*  
Ahmad Tabafabaifar\*\*  
Abraham Z. Varghese\*\*  
Robert P. Woemer  
Bradley W. Wright\*\*
- 1993 Mohammad H. Bagherzadeh\*\*  
Neal H. Barto\*  
Larry K. Brannaka\*\*  
Kevin M. Brannan\*  
Todd W. Carenbauer  
Wade W. Chamberlain\*  
Randy W. Clouse  
Sydney H. Deck\*\*  
Lewton A. Deichert\*  
James A. Dunkelberger  
David S. Elkin  
Daun L. Fitzpatrick  
Jerrold L. Grosh\*  
W. Michael Hardin  
Leon W. Heisey\*  
Valdis j. Krumins  
Andrew S. Levine  
Eric D. Lowe\*  
Randolph E. Manack  
Todd E. Palmer  
Niranjan P. Pathare\*  
Christine A. Retherford\*  
K. P. Sandeep\*  
Holly D. Sharp  
Jeffery T. Smith  
Girish Subramaniam\*\*  
John T. Tyson  
Cheryl F. Vorhauer\*  
Edwin A. Wagenheiser  
Eric C. Williams  
Myron S. Worley\*  
Lluming Zhou\*\*
- 1994 Thomas H. D'Alfonso\*\*  
Tracey J. Dengler-Crawford  
Tomas A. Fajardo\*  
Lawrence A. Fennessey\*  
Brian J. Fischer\*  
Mark O. Gardner\*
- Julie A. Hickey  
K. G. Karthikeyan\*  
Christopher M. Kirkham  
Aaron K. Lee  
Jenshinn Lin\*\*  
Jodi Litus  
Yan Sheng Liu\*\*  
Jeremy S. Madaras  
Bryan K. Nolan  
Brian S. Noll  
Douglas H. Schauffer\*\*  
Katherine A. Scott  
Jeannie L. Sikora\*  
Kevin M. Strauss  
Terry L. Strausser  
Jeffrey E. Strulic  
Patrick S. Thompson  
Michael A. Tripodi\*\*
- March 18, 1994**  
**Graduate program name changed to Agricultural and Biological Engineering (ABE)**
- 1995 Nathan M. Anderson  
Kent A. Bitting  
Kevin A. Blose  
Deron G. Davis  
Shawn P. Duffy  
Wayne T. Farrow Jr.  
James S. Garvin  
Jennifer L. Goyne  
Bin He\*  
J. David Keener\*  
Konrad R. Kerr  
Sarah E. Labance  
Robert A. Land  
Dauda D. Ladipo\*  
Feng Li\*  
Greta L. Martin-Washington  
Stacy G. Maun  
Jonathon D. Mead  
Stephen R. Messier\*  
Joseph A. Millen  
Dennis Q. Neff II  
Matthew C. Newton  
Robert F. Olsen  
Shane C. Parson\*  
Howard L. Pope III

	<p>Timothy W. Riegel*  Craig R. Shearer  Duane K. Smith  M. S. Srinivasan*  Charles D. Stitt  Robert Troia  Beth A. Wagner  Dirk A. Wahanik*  Jason D. Wert  Melissa Williams</p>	<p><b>March 15, 1996</b>  <b>Undergraduate program</b>  <b>name changed to</b>  <b>Agricultural and Biological</b>  <b>Engineering (ABE)</b></p>
1996	<p>Jason L. Deysher  Crile Doscher, Jr.**  Jose I. Escribens*  Mark C. Fowles  Joseph A. Glotz  James B. Harrold  Travis J. Herrold  Larry L. Hoover  Gary M. Huslak  Sunil Kamath**  Jason E. Kirk  Jeffrey W. Lann  Brent Leatherman  Li Liu**  Shelby P. Magliari  Joseph A. Martinenza Jr.  Joseph A. Millen*  Susan M. Miller  Devlina Mukherjee*  Jennifer M. Nolan  Elizabeth A. Northeimer  Andrew J. Rogowski  Jennifer Rauhofer  K. P. Sandeep**  Andrew J. Schall  Matthew E. Schultz  Nityanand L. Shastri*  Kevin M. Smith*  Steven G. Snyder  Roderick S. Thomas*  Radhakrishnan S. Vilayannur*  Zhijie Wang*  Heather Warren*  Susan L. Wood*  Matthew P. Zeigler*</p>	<p>1997 Sajid H. Alavi*  Brian M. Brochon  Jeffrey K. Brown  Neylor A. Calasans**  Abhijit Chatterjee*  Prentiss P. Douglass  Shawn P. Duffy*  Bethany A. Elkin  Christopher M. Ernst  Daniel R. Fabin  Amy L. K. Forbes  Luke E. Helsel  John R. Hicks  Daniel P. Hindman  K. G. Karthikeyan**  Ali B. Koc*  Vincent D. Lacross*  Matthew J. Lawrence (Ag E)  Ling Eng Low**  Michael W. Lubinsky  Steven J. Lynch  Jeremy S. Madaras*  Greta L. Martin-  Washington*  Matthew J. Miller (Ag E)  Jonathan P. Moats  Mark C. Ott (Ag E)  Joel R. Peterson*  Wendy L. Polasko  Cheri L. Salas*  Matthew D. Schaefer  Edie S. Sears*  Aaron B. Stephens  Anthony M. Trout (Ag E)  Zhijie Wang**  Scott E. Wolf</p>
		<p>1998 Robert J. Allison  Nathan M. Anderson*  Mohammad H. Ayagi*  Drew E. Becker  Steven M. Brown  Diane E. Chan*</p>

	Frederick L. Charles**		Mark D. Swank
	Thomas H. Colledge**		Rebecca S. Wargo
	Matthew W. Dixon		Archie L. Williams*
	Benjamin J. Ehrhart*		Scott E. Wolf*
	Handan Erturk**		
	Stephen J. George	2000	Michele A. Aukerman
	Gary L. Graff		Sarah K. Bowen
	Larry L. Hoover*		John E. Cudoc
	Susan K. Hwang		Lawrence A. Fennessey**
	Jason E. Kirk*		Brian M. Green
	Sarah E. Labance*		Deanna D. Hoekstra
	Brian G. Leib**		Linchang Huang**
	William R. Lloyd III		Pamela A. Kayatta
	Crystal A. Markley		Chad M. Keating
	Jeremy S. Mondock		Ali B. Koc**
	David A. Newman		William R. Lloyd III*
	Melissa Nowakowski		Douglas W. Matthews
	Robert D. Oates		Shankar Radhakrishnan*
	Kenneth L. Orie		Ronald W. Roeder Jr.
	Matthew D. Plant		Michael M. Rubano*
	Jennifer Rauhofer*		Trevor W. Rudy
	John H. Scarborough		Kathleen M. Rut
	Benjamin T. Stratton		Joshua B. Ryan
	Daniel R. Warner		Paul C. Sedesse Jr.
	Benjamin Wisniewski		M. S. Srinivasan**
	Troy D. Young (Ag E)		Luke T. Teller
			Benjamin Wisniewski*
			Susan L. Wood**
1999	David A. Bidelspach		
	Michael D. Blöse		
	Jeffrey K. Brown*	2001	Matthew D. Brubaker
	Robert G. Deecki III		Julia D. Denardo
	Steven M. Fagan		Shawn P. Duffy**
	Zachary L. Gay		Eric B. Greenswait*
	Tawni T. Hoang*		Sang-Hyup Han*
	Raghunandan N. Kandala*		Todd D. Huber
	Scott L. Kauffman		Barton E. Kirk
	Jason E. Keller		Autumn H. Long*
	Jordana L. Langiotti		Judson P. Long*
	Feng Li**		Julie E. Masser
	Sridhar Loke*		Angela Mazzoni
	William N. Marrazzo**		Chad D. Peters
	Susan M. McNulty		Matthew P. Pruss
	Bhavishya Mittal*		Rakesh Ranjan*
	Tom O. Owino**		Edie S. Sears**
	Shane C. Parson**		Hillary M. Sharp
	Kevin P. Quill		Roderick S. Thomas**
	Eugene L. Shelhamer		Siza D. Tumbo**
	Puneet Srivastava**		Carolina Vela
	Aaron B. Stephens*		Stephen P. Walker



2002	<p>David A. Bidelspach*</p> <p>Mickael R. Bixler</p> <p>Jamie A. Bober*</p> <p>Clair M. Breneman</p> <p>Lula T. Ghebremichael*</p> <p>Megan K. Hamilton</p> <p>Soo J. Jun**</p> <p>Kathirawan Krishnamurthy*</p> <p>Sarah E. Labance**</p> <p>Sheri A. Lamphere</p> <p>Eric P. Pesce</p> <p>Michael R. Reiner</p> <p>Ronald W. Roeder Jr.*</p> <p>Nadia C. Sabeh*</p> <p>Heather L. Schaetzle</p> <p>Ratna R. Sharma-Shivappa**</p> <p>Jason L. Sperry</p> <p>Eric R. Steigman</p> <p>Robert O. Strobl**</p> <p>Sean C. Sweeney</p> <p>Michael L. Sword*</p> <p>Barrett T. Vaughan**</p> <p>John W. Waswa*</p> <p>Nathan S. Watts</p> <p>Jeffrey M. Werner</p> <p>Eric L. Wriglesworth</p> <p>Hong Yang**</p> <p>Min Zhang**</p>	<p>Stephen P. Walker*</p> <p>Kenneth W. Wedel Jr.</p> <p>Daniel A. Wilson</p> <p>Guoshun Zhang*</p>
	2004	<p>Mark A. Bechara*</p> <p>Katherine L. Bialka*</p> <p>Michael A. Brown</p> <p>Deniz Cekmecelioglu**</p> <p>Jonathan R. Channell</p> <p>Remegio B. Confesor**</p> <p>Erin E. Cummings</p> <p>Bryce A. Figdore</p> <p>David E. Finkenbinder</p> <p>Benjamin T. Kaiser</p> <p>Renee L. Korach*</p> <p>Matthew J. Lawrence*</p> <p>Diana M. Maimone</p> <p>Blaine R. Noll</p> <p>Christina L. Pepple</p> <p>Erica M. Petre</p> <p>Anna L. Santini</p> <p>Justin T. Spangler</p> <p>Johnathan R. Stahl</p> <p>Kristin Sziachetka</p> <p>Pingjun Tang**</p> <p>Bradley J. Wagner</p> <p>Alan D. Wood**</p> <p>Stacy K. Worley**</p>
2003		2005
	<p>Robin C. Brandt**</p> <p>Jesse R. Burow</p> <p>Byoung-Kwan Cho**</p> <p>Julia Denardo*</p> <p>Vivian J. Figueroa</p> <p>Nicholas A. Fisher</p> <p>Margaret W. Gitau**</p> <p>Jarrold J. Hart</p> <p>William F. Hunt**</p> <p>Nitin Khandelwai*</p> <p>Dustin P. Kieffer</p> <p>Ramazan Kizil**</p> <p>Robert W. Klindworth</p> <p>Julie E. Masser*</p> <p>Justin E. May</p> <p>Michael Q. Nassry</p> <p>Tremaine B. Powell*</p> <p>Peter B. Toft</p> <p>Ennis L. Veale*</p>	<p>Jesse R. Burow*</p> <p>Kelly A. Collins</p> <p>Cameron M. Cornelius</p> <p>Michael E Fifth II</p> <p>Kevin M. Flynn</p> <p>Grace F. A. Igot</p> <p>Jordan S. Kahlenberg</p> <p>Shaowei Liu**</p> <p>S. Matthew March</p> <p>Tan Meesook*</p> <p>Ryan M. Moose</p> <p>Monique N. Person</p> <p>Eric P. Pesce*</p> <p>Farzaneh Rezaei*</p> <p>Alvaro F. Rivera</p> <p>Dawn Sedorovich</p> <p>Gregory F. Stricker</p> <p>Anand S.</p> <p>Subramanian*</p>

	Jennine B. Terrill Thomas N. Ulrich Jr.	Joshua W. Kemmerer Neha K. Khandke Kathryn LaVan Matthew J. Lawrence** Ross W. Lindley Garrett S. Mock Michael Q. Nassry* Manolya E. Oner* Robert L. Plank III Saed Sayyar-Roudsart** Paul A. Shealer Nathan W. Shepp Daniel J. Wagner* Eric D. White Thomas O. Wilson
2006	Nathan M. Anderson** Tracy L. Bender Holly C. Cinkutis David L. Dietrich Jamie L. Fisher Richard M. Forney Morgan Hayes Patrick L. Henry Michael R. Kreider Kathirawan Krishnamurthy** Changying Li** Todd J. Miserendino* Lindsay A. Peters Slade P. Peters Thunyarat Pongtharangkul** Bridgette A. Ramer Haiyu Ren** Michele L. Seib Mark R. Sell Kevin B. Spangler Alexandra C. Srebro Michael J. Vassallo* Erik M. Vranich Archie L. Williams** Xinsheng Xie** Juan Zhao**	<b>January 18, 2008</b> <b>Undergraduate program</b> <b>name changed to Biological</b> <b>Engineering (BE)</b>
		2008
		Darryl M. Baxam Douglas K. Brownell (ABE) Jeremy A. Davis Reuben J. Dise (ABE) Justin M. Hall (ABE) Muhammad Hishamuddin (ABE) Daniel J. Hopkins, Jr. (ABE) Rosa M. Jarvis (ABE) Arjani K. Jha** Jeremy R. Kauffman (ABE) Joi M. Koratich Abraham H. Kuol (ABE) Caitlin M. Latshaw Angela D. Lieb (ABE) Ernest K. Osseo-Asare Joseph E. Parisi (ABE) Daniel M. Paxton (ABE) Timothy W. Peters (ABE) Jared A. Puvak (ABE) Erika H. Reifenstein (ABE) Kevin P. Resnik Jr. (ABE) Farzaneh Rezaei** Rachel Rorick Drew D. Scarantino (ABE) Dawn Sedorovich** Natalie K. Shewski Kurt M. Smay (ABE) John W. Stratton (ABE)
2007	Mark C. Baker Mark A. Bechara** Ryan A. Bentzel Katherine L. Bialka** William R. Brooks Robert A. Brown Joseph A. DeChristopher Joshua S. Eipper Jeffrey K. England Travis J. Fisher Zebulon D. Fultz Lula T. Ghebremichael** Rhonda N. Ghilarducci Jaskaran S. Gill* Joel Q. Grim Christopher M. Henry Yen C. Huang*	

	John T. Tyson*		Maxwell D. Dettlinger
	Benjamin B. Unger (ABE)		Ryan A. Gehringer
	Krista A. Virsack		Shawn M. Haas (ABE)
	Eric D. Ward (ABE)		Alyssa Holgate (ABE)
	Patrick J. Wilshire (ABE)		Kelly J. Irish
	Patrick J. Woolcock		Gultin Izmirliglu*
			Deepak Jaiswal**
2009	Joshua M. Beichner (ABE)		Charles D. Johnson (ABE)
	Douglas K. Brownell*		Jason E. Kennedy
	Brandon D. Bufalini (ABE)		Joshua A. Leshner
	Gustavo G. Carnargo*		Alex Y. Lin (ABE)
	Qin Chen**		Nicholas R. Martin
	Margaret H. Emerick (ABE)		Michael D. Mckay*
	Christian R. Fulkman		Andrew D. McLean
	Rick L. Hall Jr.		Cory E. Moore (ABE)
	Keith L. Hodge (ABE)		Manolya E. Oner**
	Aaron J. Jolin		Ryan J. Progin
	Nene M. Keklik**		Richard T. Reiber (ABE)
	Benjamin D. Kemmerer (ABE)		Michael R. Ryan (ABE)
	Kraig S. Kephart (ABE)		Simon A. Sassaman (ABE)
	Bao L. Li		Jessica L. Schwartz (ABE)
	Duane R. Moore (ABE)		Pamela A. Smith
	Edward J. Moyer (ABE)		Brian A. Stone (ABE)
	Josiah S. Newman (ABE)		N. Kip Totten (ABE)
	Hatice O. Ozden**		Stephen P. Walker**
	Anuranjan Pandeya**		Bradley J. Wenger
	Samuel P. Roberts (ABE)		Mark R. Williams*
	Evan Rusadi		Marlyse K. Williams**
	Brett M. Schrey (ABE)		Thomas O. Wilson*
	Scott A. Shore*		
	Jena M. Smolko (ABE)	2011	Katherine L. Blansett**
	Deepti Tanjore**		Benjamin P. Campbell
	James A. Tillapaugh*		Christopher M. Ferry
	Jimmy Truong		Kaitlin E. Fortnam
	Matthew J. Wagner		Joseph P. Herbstritt
	Nathan R. Whited (ABE)		Stephanie M. Herbstritt
	Haijun Wu**		Daniel W. Hofstetter*
	Zachary F. Zapsky (ABE)		Yang Hu**
	Guoshun Zhang**		Collin Julius*
	Jiayun Zhang*		Benjamin D. Kemmerer*
			Alexander W. Leslie
2010	Sarah A. Adams		Andrew F. Liptock
	Justin M. Becker (ABE)		Zachary S. Long
	Samuel H. Blydon (ABE)		Sandra C. Mateu
	Mark G. Buckwalter (ABE)		William J. McGrotty
	Kuan-Chen Cheng**		Preston L. McKinney
	Joseph W. Christie (ABE)		Dana M. Mears*
	Marlo N. Ciccone (ABE)		Niharika Mishra**
	Shauna L. Couch		Todd S. Parker

Lucas M. Powell  
Robin M. Pritz  
Christopher J. Ritchie  
Dustin Shearer  
Peter F. Slover  
Michael J. Stefanchik  
Michael T. Thomas  
Serena Wang  
David M. Werner  
Nathan R. Whited\*  
Ryan A. Zaks

2012

Jonathan F. Amt  
David A. Beckstead  
Alex Devaux  
Nathan R. Drzal  
Christopher J. Felter  
Reid W. Garner  
Matthew J. Gearhart  
Daniel J. Glass  
Alexander Greenspan  
Jason M. Hegedus  
Nathan Hinterberger

Joshua D. Hughes  
Brian R. Kelly  
Joshua L. Lounder  
Jonathan A. Lyne  
Isaiah Martin  
Jonathan E. May  
Eric M. McCann  
Thomas A. McCarthy  
Kory R. Noggle  
John R. Novoshielski  
Adam R. Plucinski  
Angela M. Raimondi  
Sarah E. Richer  
Kaitlyn N. Roberts  
Matthew T. Ruff  
Kyle W. Simpson  
Christopher S. Smith  
Vincent J. Smith  
Scott A. Strobel  
Joseph R. Sunder  
Andrew G. Vensko  
Andrew N. Wolos  
Hanfu Zhao

## Appendix 4

### Mechanization Graduates

#### Agricultural Mechanization (Ag M) Master of Agriculture (M AGR)

1976	Bryan Bard Robert P. Bean Richard L. Caswell II David A. Dell Ray E. Duke James W. Hallowell Daniel E. Hammett Robert B. Keith, Jr. John M. Lindey Thomas C. Lipinski Jeffrey D. McCord Douglas R. Myers Ronald J. Secord Michael J. Wiley	Stephen B. Rowe Dennis B. Spangler Howard L. Stoltzfus Harry E. Stugart, Jr. Kurt E. Taylor
	1979 Kenneth L. Dietz R. Evan Fox Jr. E. Dennis Ginder John F. Griggs Lyndon B. Hepler David R. Klingensmith David P. Marchini John J. Mulholland James T. Oliver Mark A. Pavcic Keith M. Ruhl Kirk S. Schaller James S. Shadle, Jr. Gary L. Sheppard Harold M. Swarr Eric C. Woelfel	
1977	William K. Christofel Glenn K. Gearhart Joel R. Gravitz James C. Heintzelman Randall C. Imbt William J. Kelsall Paul J. Miskinis Garry L. Pepple John E. Single Robert D. Strock James F. Wess George N. Whitaker	1980 William M. Blyshak Keith A. Campbell David V. Coxon Jeri Dubec William M. Gearhart Willis L. Greaser, Jr. Geralyn A. Harrington Ronald L. Heiken Mark D. Hergenreder Dale B. Johnson John A. Keith Stephen C. Kistler Edwin E. Kline, Jr. Gregory A. Long Timothy P. Lutz Merle F. McAnallen David C. Mummah Leon E. Poplawski John P. Remington Bradley J. Sunanday
1978	Adesoji O. Adelaja J. Craig Aurand Bernard J. Becker Peter D. Burkhart Timothy D. Gordon Richard W. Hetherington Galen M. Julius Kurt W. Keilhofer Ernest A. Keller Patrick J. McCormick Clifton D. Miller Bruce T. Rea Joseph D. Rihl, Jr. Charles J. Ritinski, Jr. David J. Rothermel	

- Paul S. Trella
- 1981 Dale H. Bloom  
Philip D. Dean  
Richard H. Deutsch  
David W. Heider  
Ronald D. Hess, Jr.  
Donald J. Hohn  
Theodore F. Hovermale, Jr.  
Thomas M. Kalasky  
Bradley A. Lewis  
Kenneth J. Martz  
John A. McConnell  
Joan W. Mosteller  
John B. Myers  
John R. Myers  
Steven M. Packer  
Ralph E. Schramm  
Samuel G. Schuler  
Douglas Y. Smith  
James G. Stewart  
Joseph B. Stratton  
Harry L. Vroomen  
William G. Wichser
- 1982 Leslie A. Bower  
John R. Butcosk  
David J. Custozzo  
Steven M. Eno  
Randall E. Fardelmann  
Steven C. Farney  
Thomas J. Flegler  
George E. Gourley  
David A. Hudish  
James S. Jacklin  
Paul J. Klens  
Ronald M. Koontz  
William R. Korman  
Ronald A. Kraszewski Jr.  
Stephen R. Peck  
Kevin D. Rimmey  
Robert R. Ross, Jr.  
D. Bradley Rowe  
Stuart L. Thompson  
John W. Yeash
- 1983 Kamran Abdollahi  
Curtis A. Bookhammer  
Ricky L. Butz
- Kevin R. Campbell  
Margaret M. Condon  
John F. Cunningham  
Kenneth A. Dunmire  
Ronald E. Fetrow  
Robert T. Fullerton  
C. Frank Hess  
Thomas S. Hutchison  
Timothy N. Lelo  
John R. Logan  
Craig K. McGee  
John J. McGoldrick  
Joseph C. Schuck  
Martin A. Shamro  
James V. Sinden  
Neil S. Squier  
James V. Wagner  
David J. Ward  
Bruce E. Weaver  
Ronald K. Wells  
Lloyd R. Wilson
- 1984 Barbara M. Baxter  
Frederic B. Bennett  
C. Daniel Brogdon  
Peter E. Brown  
Brian T. Chick  
Gregg A. Davis  
Kelli G. Hartie  
Mark A. Hewel  
Michael R. Hyduchak  
Richard R. Kincaid  
Steven L. McCosby  
Gary L. Miller  
Kevin R. Moore  
William H. Neilson  
Calvin A. Odhner  
Robert J. Podiaszewski  
Paul N. Schuler  
Randolph A. Weirman
- 1985 Thomas M. Berge  
Bernie J. Buzulak  
William H. Deitrick  
Thomas J. Dilley  
Glenn Hartz  
Brian D. Harwick

	Michael L. Hogue Vincent J. Jedrzewski Carey D. Kalupson Jr. Timothy W. Kyle Eric J. Longenecker Kurt R. Padavano Gary M. Pokrifka Richard J. Sanders David J. Stas John C. Walter	Edward J. Kaufman Francis G. McCormack Kyle L. Nicholas Bruce A. Roy
1986	Timothy J. Bupp Glen A. Burger Gregory G. Clarke Michael T. Donahey Lowell D. Graybill Jeffrey L. Havens Thomas M. Henry Joseph G. Hughes Cameron M. Johnson Robert B. Manns David A. Radcliffe John E. Rutherford Robert A. Scott Nicholas C. Smith Blaine A. Stebick Lynn E. Temple	1989 Patrick K. Fenstermacher Daniel B. Foresman Michael L. Groszkiewicz Troy L. Mest Robert J. Ratvasky Kenneth H. Soder, Jr. Thomas E. Sokol James J. Stratton  1990 Melinda A. Anderson Harvey F. Arter, Jr. Bryan R. Eberly Drew V. Fletcher Dale R. Happel Francis G. McCormack* Michael W. McCahen Paul W. Schmidt
		<b>November 9, 1990</b> <b>Name changed to Agricultural</b> <b>Systems Management and</b> <b>Technology (ASMT)</b>
1987	Stephen E. Adams Allen C. Augenstein John S. Baker Theodore R. Brown Agrippa M. Dlamini* Bernhard R. Griwatz Douglas A. Haagen Eric M. Hallman Karl R. Heffner John C. Hoffman Kenneth A. Hoover Stacy A. Kovalchick Marc P. Stachowski Ira G. Summerhill	1991 Eric J. Bowersox James R. Day (Ag M) Fred J. Perino, Jr. (Ag M) Donald S. Templeton (Ag M) Daniel F. Troxell (Ag M)  1992 Daniel P. Basalyga III Daniel A. Carney Craig T. Cassidy John R. Ferringer (Ag M) Michael L. Groszkiewicz* Philip C. Jones (Ag M) Martin D. Reichard Todd B. Way
1988	Mark E. Bonson Timothy E. Enderlein Gerald D. Faust Eric M. Hallman* David D. Heilman Daniel C. Jandzio	1993 Brian K. Brady George E. Dills Daniel L. Eppinger James W. Fitzgerald Richard R. Hissong Bret A. Leiphart Brian R. Macafee

Robert J. Meinen  
 Scott A. Raubenstine  
 Timothy R. Stoner  
 Robert C. Stout  
 Curry D. Werkheiser

Andrew B. Kumpf (ASMT)  
 Michael L. Long  
 David G. Masser  
 Anthony J. Mihalak  
 Marc J. Miller  
 Wade L. Myers  
 Andrew J. Petro  
 Alana E. Pore  
 Erin A. Pore  
 Scott A. Rebert  
 Emily Rogers

**March 19, 1994**  
**name changed to Agricultural**  
**Systems Management (ASM)**

1994 Donald A. Fair (ASMT)  
 Timothy B. Groff (ASMT)  
 Robert J. Jackson (ASMT)  
 Bryan C. Kaniuk (ASMT)  
 Willie Kelty  
 William N. Sage (ASMT)  
 James D. Smith (ASMT)  
 David A. Thiel (ASMT)  
 Christopher D. Thomas (ASMT)  
 Kevin D. Vandervort (ASMT)  
 Amy S. M. Werner

1995 Frank J. Roginski Jr.  
 R. Scott Sahrhage (ASMT)

1996 Dean J. Kohler (ASMT)  
 Andrew C. Lewis (ASMT)  
 Mark A. Mangieri (ASMT)  
 Robert E. McKee (ASMT)  
 Shane R. St Cyr  
 David E. Wharry (ASMT)

1997 Brett A. Baron  
 Daniel A. Cherrie (ASMT)  
 Scott N. Flanders  
 Jason J. Henderson (ASMT)  
 Todd A. Hutzell  
 Garin R. Ingalls  
 Aaron M. Yoder

1998 Jarrod S. Angstadt  
 Clinton J. Burkholder  
 Andrew B. Cherry  
 Christopher J. Donovan  
 Kris L. Hay  
 Christopher J. Kamzalow

1999 Eugene M. Barton, Jr.  
 Brian H. Claypoole  
 Glen L. Fair  
 Todd R. Frankenfield  
 Blake P. Gendebien  
 Ryan W. Graham  
 Bryan Grube  
 Shawn P. Hite  
 Marc A. Kovach  
 Timothy C. Owens  
 Andrew J. Tarman  
 Jere L. Wingert

2000 Lewis P. Beatty  
 Gregory E. Dillner  
 Neal R. Generose  
 Gregory E. Hawn  
 Keith A. Hoover  
 Michael S. Platt  
 Kurt A. Wearing

2001 Abram E. Brister  
 Eric D. Moser  
 Marc T. Valentine

2002 Derek L. Ashenfelder  
 Glen R. Cauffman\*  
 Philip C. Eby  
 Daniel J. Mearkle  
 Brian S. Oberholzer  
 Jason A. Piwowar  
 Michael M. Reskovic  
 Patrick A. Topper



2003	Heather E. Bowers Melinda E. Martin Peter J. Vollmer		Scott R. Rhodes Michael S. Smeal Jason A. Spieker
2004	Benjamin W. Ditchcreek Khaled A. Elridi Jeremy J. Matinko Kathryn E. S. Mosholder Matthew A. Mosholder Timothy R. Olver Nevin R. Sassaman Andrew C. Schreffler Adam R. Sieg Lauren K. Smetanick	2008	Jacob C. Altemus Samuel W. Ditchcreek Sara M. Karns Sean M. Kenney Zachary S. Lauver Michael B. Miller Justin R. Olsen Paris M. Persun II Richard M. Shellenberger
2005	Jason M. Briggs Aaron M. Kinch Christopher E. Kovalchick Nathan C. Leach Andrew Prusinowski Jonathan D. Reinecker Andrew F. Uhland Adam W. Voll	2009	Tyler M. Ackley Timothy D. Artman Carl P. Bruno Jacob S. Crooke Christopher A. Dietrich Mark F. Hansberry Benjamin J. Kratzer Jeffrey H. Leese Justin S. McRoberts Alex F. Potosky Brandon Redmond Jonathon D. Robinson Timothy R. Stewart Ian S. Vranich Randall A. Wakefield
2006	David P. Aducci George V. Agnew James M. Biddle Austin G. Binkley Jason L. Bixler Richard L. Bupp Esmond B. Crooke Allan J. Day Nathan C. Decker Ryan T. Gahres Aaron L. George Seth J. Gropp Stefanie M. Pollock Derek C. Sealand Adam P. Wivell	2010	Christopher C. Brenner Nevin C. Dysinger Scott C. Fitzpatrick Joseph G. Geary Matthew T. Henderson Kyle J. Leh Robert L. Lomax Scott J. Milchak Tyler J. Nehlig Kyle K. Runkle David J. Shertzer Philip L. Slusser Steven R. Woods
2007	Jay T. Bechdel Nathan J. Crooke Seth T. Doman Thomas J. Doody Robert J. Garrett Joshua D. Kratzer Jason G. Lamm Ryan P. McCormick Cody J. Musser	2011	Robbin Campbell Victor M. Constable Bradley H. Dressler Preston K. Eshelman Christopher S. Harnish

David K. Harwick  
Creighton L. Knopsnider  
Josiah C. Meck  
Anthony Miller Jr.  
Miles L. Miller  
Trevor Miller  
Emily H. Smetanick  
Jonathan A. Smetanick  
Tyler S. Ulrich

2012 Jason M. Barnett  
Ryan D. Berkey

Wesley C. Congdon  
Christopher M. Dara  
David B. Gray  
Gabriel N. Hartman  
Steven R. Hunsicker  
Benjamin S. Kunkel  
Zachary S. Neiderer  
Korey L. Rider  
Russell L. Rohrbaugh  
Mark A. Slusser  
Brian D. Thrush

## **Appendix 5**

### **Farm Equipment Service and Sales Graduates**

1976 Gary M. Cowden  
Robin R. Hitchner  
Kenneth R. Houser  
Robert S. LaVan  
Todd D. Sloane  
George A. Wilson  
Howard J. Zurn

## Appendix 6

### Departmental IPAC Members

<b>Name</b>	<b>Company/Agency/Title</b>	<b>Years</b>
John W. Ackley	Research Engineer, Deere and Company Technical Center	1973-1978 1987-1988
Gary W. Allshouse	Senior Design Engineer, Sprout-Bauer, Inc.	1987-1991
Julie Masser Ballay	Masser Potato Farms	2010-2012
Perry H. Ballek	Division Manager, John Deere Industrial Equipment Co.	1992-1995
William Batchelor	Mississippi State University	2008-2010
David Bidelspach	Stantec, Inc.	2011-2013
Wayne Bogovich	USDA-NRCS	2004-2009
Dante Bonaquist	Praxair, Inc.	2012-2014
Glyn R. Boone	Staff Engineer, Butler Rural Systems, Trus-Joist	1990-1995 2000-2002
William J. Bowers	State Conservation Engineer, USDA-SCS	1987-1991
David E. Braun	Senior Sales Engineer, Andritz Sprout- Bauer, Inc.	1992-1994
H. P. Brown	Sales Representative, Lamco Mfg. and Dist. Co., Inc.	1971-1976
Karl Brown	State Conservation Commission	1998-2001
Mike Brubaker	Brubaker Agronomic Consulting	2000-2001
David H. Bucher	Senior Division Engineer, Deere & Company	1985-1990
Dale A. Bucks	USDA-ARS	2001-2002
Robert L. Carper	Manager, Firestone Test Center	1980-1985
Krista Cessna	Hershey Foods	2002
Frederick Charles	MFG, Inc.	2001-2002
Harry Cooper	Procter and Gamble Company	1993-1995 1997-1998
Robert S. Crist	Customer Service Engineer, West Penn Power Company	1980-1985
Thomas D'Alfonso	Danisco Animal Nutrition	2006-2011
Miles D. Daub	Director, Process & Product Engineering, Hershey Foods Corporation	1989-1994
James R. Day	Turf-Teg, LLC	2005-2010
Lynn Deitrich	Grove Worldwide	2002
Dave Elkin	Murphy Brown, LLC	2003-2005
Ray Evans	Titan International	2010-2012
Robert Evans	North Carolina State University	2011-2013
Daniel Fabin	John Deere Products Engineering Center	2002
Cynthia A. Fairchild	Consulting Engineer, H. M. Stauffer & Sons, Inc	1989-1994
Essex E. Finney Jr.	Assistant Director, Beltsville Agricultural Research Ctr., Federal Res., SEA-USDA.	1978-1984

Larry Gaultney	DuPont	1998-2001
Roland Gehman	President, MGS, Inc.	1971-1976
John R. Graham	Quality Control Engineer, Caterpillar, Inc.	1990-1992
Kenneth J. Guffey	Applications Engineer, FABRAL, Inc.	1987-1991
David A. Haines	Product Engineer, FABRAL	1984-1986
Kent H. Hamaker	Merck & Company, Inc.	2010-2012
John H. Hamilton	Marketing Planning Mgr, Agricultural/Industrial Division, International Harvester Co	1974-1979
Melvin J. Happe	Vice-President, Engineering, Sperry New Holland	1976-1981
C. Gene Haugh	Virginia State University	2002
Dennis R. Heldman	Executive Vice-President, National Food Processors Association	1986-1991
Larry M. Hixon	Fluid Energy Aljet	1995-1997
Robert J. Hoffman	Plant Manager, Ralston Purina Company	1984-1986
Kenneth Hoover	Cargill-Nutrena	1995
William J. Howard	Executive Engineer, Ford Tractor Operations	1985-1987
Carl A. Johnson	Perdue Farms, Inc.	1995-2000
Thomas O. Johnstone	Director, Product Services, FABRAL	1979-1982
William T. Kennedy III	Vice President, Engineering, Sperry New Holland	1984-1986
Barry Kintzer	USDA-NRCS	1997-2002
W. Hosea Latshaw	USDA-NRCS	2009-2015
Dale Lehman	Section Head, Greenhorne & O'Mara, Inc.	1987-1988
Dale Lehman	URS	2004-2009
Feng Li	Merck & Company	2008-2010
Kelly (Collins) Lindow	Center for Watershed Protection	2011-2013
Michael Lorenz	Kling Architects, Engineers & Interior Designers	2008-2014
Mike Machek	GVM, Inc.	1998-2002
C. Patrick Maggi	Cannon Instrument Company	2004-2006
Wayne A. Maley	Agricultural Engineer, U.S. Steel Corp.	1973-1978
Wayne Martenas	CNH Global	2005-2010
Rodney Martin	Director, Farm Systems Research, Agway, Inc.	1970-1975
Keith E. Masser	Farm Manager, Serman Masser, Inc.	1980-1983
William F. Matson	General Manager, Pennsylvania Rural Electric Association	1972-1977
Samuel McLaughlin	Volvo, Inc.	2011-2013
Susan McNulty Atwater	Rich Foods, Inc.	2004-2009

Donald E. McCandless, Jr.	Water Management Engineer, USDA-SCS	1977-1983
Bhavishya Mittal	Millennium Pharmaceuticals	2005-2007
W. R. Mosig	Product and Manager, FABRAL	1983-1984
John C. Nye	University of Delaware	1997-2000
L. A. Parrott	President, McDowell Manufacturing Co.	1971-1976
Gerald E. Rehkugler	Associate Dean, College of Engineering, Cornell University	1989-1994
Allan R. Rider	Vice-President Engineering, Ford-New Holland	1986-1991
Timothy R. Royer	Timber Tech Engineering, Inc.	1992-1995 1997
Terry Thomas Ruch	USDA-NRCS	1995-1997
Jay V. Rush	President, York Farm Credit	1992-1994
John C. Sager	Agricultural Research Engineer, NASA	1991-1996
Luther S. Singley	Executive Vice President and General Manager, West Penn Power Company	1977-1979
Kenneth E. Smith	Executive Engineer, Ford-Holland, Inc.	1991-1996
Vaughn B. Staller	Manager, Agricultural Division, American Home Foods, Chef Boy-Ar-Dee	1977-1983
Larry E. Stewart	Chairman, Department of Agricultural Engineering, University of Maryland	1992-1994
Girish Subramaniam	Fluor Daniel Company	1997-2002
Jeffrey L. Suhr	Group Leader, Greenhorne & O'Mara, Inc.	1989-1991
Jordana Langiotti Swank	Hershey Foods	2008-2014
Paul O. Swartz	Director, Soil and Water Conservation, DER	1986-1988
Rosalie Tarris	Hershey Chocolate	1995-2001
Lloyd E. Thomas	Construction Engineer, USDA-SCS	1984-1986 1992-1994
Beth Wagner	Caterpillar, Inc.	1998-2002
Robert A. Wagstaff	Vice President, Engineering, Sperry New Holland	1983-1984
Kenneth Wedel	Naval Sea Systems Command	2009-2015
Stanley A. Weeks	Manager Energy Utilization, Agway Research Center	1987-1991
Robert D. Wismer	Manager, Product Technology, Deere and Company Technical Center	1979-1984
Robert G. Yeck	Staff Scientist, Soil, Water, and Air Sciences, USDA	1974-1979

## Appendix 7

### Outstanding Alums

*The Department of Agricultural and Biological Engineering participates in both the College of Agricultural Sciences and the College of Engineering Outstanding Alumni programs. These programs honor graduates of the colleges who have made outstanding contributions to their professions and society, and are nominated by the departments.*

E. E. Finney (M.S. Ag E '61) College of Engineering; Outstanding Engineering Alumnus. March 21, 1985

K. H. Norris (B.S. Ag E '42) College of Engineering; Outstanding Engineering Alumnus. April 4, 1986.

R. P. Gehman (B.S. Ag E '59) College of Engineering; Outstanding Engineering Alumnus. March 18, 1988.

K. H. Norris (B.S. Ag E '42) Penn State University Alumni Fellow. September 29, 1988.

John N. Walker (B.S. Ag E '51 & M.S. Ag E '58) College of Engineering; Outstanding Alumnus. March 23, 1990.

Lloyd E. Thomas (B.S. Ag E '61) College of Engineering; Outstanding Alumnus. March 22, 1991.

Donald Snyder (B.S. Ag E '57) College of Engineering; Outstanding Alumnus. 1992.

David H. Bucher (B.S. Ag E '57 & M.S. Ag E '62) College of Engineering; Outstanding Alumnus. 1993.

John C. Sager (B.S. Ag E '64 & M.S. Ag E '70 & Ph.D. Ag E '73) College of Engineering; Outstanding Alumnus. 1995.

Perry H. Ballek (B.S. Ag M '69) College of Agricultural Sciences; Outstanding Alumnus. 1995.

Larry M. Hixon (B.S. Ag E '66 & M.S. Ag E '67) College of Engineering; Outstanding Alumnus. 1996.

Joseph C. Hurlburt (B.S. Ag E '61) College of Engineering; Outstanding Alumnus. 1997.

William J. Bowers (B.S. Ag E '69) College of Agricultural Sciences; Outstanding Alumnus. 1999.

Donald L. Henninger (B.S. Ag M '70) College of Agricultural Sciences; Outstanding Alumnus. 2001.

C. Gene Haugh (B.S. Ag E '58) College of Engineering; Outstanding Alumnus. 2002.

Adesoji O. Adelaja (B.S. Ag M '78) College of Agricultural Sciences; Outstanding Alumnus. 2002.

Kenneth E. Smith (B.S. Ag E '67) College of Agricultural Sciences; Outstanding Alumnus. 2004.

Michael R. Lorenz (B.S. Ag E '75 & M.S. Ag E '77) College of Engineering; Outstanding Alumnus. 2006.

Wayne M. Bogovich (B.S. Ag E '80) College of Agricultural Sciences; Outstanding Alumnus. 2006.

Earnest U. Gingrich (B.S. Ag E '53) College of Agricultural Sciences; Outstanding Alumnus. 2007.

Keith E. Masser (B.S. Ag E '73) College of Agricultural Sciences; Outstanding Alumnus. 2008.

George E. Logue (B.S. Ag E '51) College of Agricultural Sciences; Outstanding Alumnus. 2009.

Wayne B. Martenas (B.S. Ag E '74) College of Engineering; Outstanding Alumnus. 2010.

Lynn A. Dietrich (B.S. Ag E '73) College of Agricultural Sciences; Outstanding Alumnus. 2010.

Renfu Lu (Ph.D. Ag E '90) College of Agricultural Sciences; Outstanding Alumnus. 2011.

Yanbin Li (Ph.D. Ag E '89) College of Engineering; Outstanding Alumnus, 2012.

David C. Curtis, (B.S. Ag E '72) College of Agricultural Sciences; Outstanding Alumnus, 2012

## **Appendix 8**

### **Outstanding Recent Alums**

*The Outstanding Recent Alumni award was established in 2000 to recognize outstanding alumni who have graduated within the last ten years and provide opportunities for faculty, staff, and students to interact with them. Honorees have distinguished themselves through significant career advancement and diverse service to their communities.*

James R. Day (B.S. Ag M '91) College of Agricultural Sciences; Outstanding Recent Alumnus. September 7, 2001.

Richard R. Hissong (B.S. ASMT '93) College of Agricultural Sciences; Outstanding Recent Alumnus. October 25, 2002.

David Elkin (B.S. Ag E '93) College of Agricultural Sciences; Outstanding Recent Alumnus. October 24, 2003.

Thomas H. D'Alfonso (Ph.D. ABE '94) College of Agricultural Sciences; Outstanding Recent Alumnus. October 11, 2005.

Brent Leatherman (B.S. Ag E '96) College of Agricultural Sciences; Outstanding Recent Alumnus. November 3, 2006.

Steve B. Taylor (Ph.D. Engineering '85) College of Agricultural Sciences; Outstanding Recent Alumnus. October 19, 2007.

Larry L. Hoover (B.S. Ag E '96 & M.S. ABE '98) College of Agricultural Sciences; Outstanding Recent Alumnus. November 7, 2008.



## Appendix 9

### Engineers Initiated into Penn State Omicron Chapter of Alpha Epsilon

\* = honorary

1970	Edward A. Blakeslee Michael F. Brugger William L. Everett Philip J. Ehrhart Albert R. Jarrett Barry L. Kintzer Mahesh Kumar William M. Miller Frank W. Peikert* David S. Ross John C. Sager James R. Wilson		Keith E. Masser Gary D. Matson Thomas R. McCarty Eugene N. Miller Robert E. Naugle Emmanuel I. Odigboh John Pero Sverker P. E. Persson* Jack T. Purdy Marshall L. Quade Terance W. Repine Albert J. Wolfkill
1971	Robert A. Aldrich* Lynn E. Herbst Joseph J. Lehman Nuri N. Mohsenin* Donald O. Norman Charles G. Perkins Morris E. Schroeder* Samuel E. Wehr Swarnapuri P. Yayathi George E. Ziegler	1974	Raymond D. Boyer Lynn A. Deitrich Paul E. Dietz William M. Elliot James V. Husted Richard A. Keppeler* Glenn M. Kimmel Harold E. Myers John S. Weller
1972	Thomas G. Bubenheim David C. Curtis George W. Hawkins Gerand M. Hillegas Ernesto P. Lozada Earl A. Myers* Suresh D. Sawart William O. Stewart Jack N. Walter Oran J. Weaver Alan D. Wood Emil C. Wunz	1975	Eric S. George Larry D. Hall Neal D. Hallee Gerald M. Heistand Barron L. Hetherington John W. Heyler Dale R. Hollinger Walter H. Latshaw Dean R. Leech John G. Lutz Joseph F. Marcin Wayne B. Martenas Blaine J. Masemore Charles T. Morrow* David P. Mummert Leslie H. Parmele* Nathan Rosenzweig James G. Schenck
1973	Albert M. Best* Richard L. Byler Robert L. Carper George H. Diener David G. Lutz		

1976	Howard D. Bartlett* Blaine K. Delaney Franklin A. Oellig Ramesh Pall Gary Rimmey Alan C. Rotz John M. Sciford Kallak Sial Djoko Suharto Kurt Walker	David S. Dum Fouad M. Hamdi William L. Kjelgaard* Mark E. Niewig Russell E. Raney Timothy M. Skergan Lodovico Spinabelli Paul C. Sweetwood Stephen L. Weise	
1977	Kevin Beaver Michael Bedia Fred A. Fox Annon Manor Jitendra Mittal Kermit Q. Stephenson* Peter J. Vanderstappen	1981	Badruddin Badrashi David C. Beppler* Steven M. Charles Janice E. Corle Ashis K. Datta Kyle F. Dresden John B. Einfalt A. R. Grout* Michael J. Hills Fernando J. Leon Mark C. Mummert Larry M. Muzzelo Cindy A. Petters Philip E. Risser David O. Roe Robert E. Scheideman Randolf L. Whisler
1978	Javier Arce James E. Biddle Betty L. Brockett Cynthia L. David Randy F. Greaser Timothy P. Hoover Gary L. Kelso Stephen T. Mahan Ausmus S. Marburger* Joseph McCurdy* Royann J. Petrell Jeffrey J. Postal Chris M. Rosenbaum Barry R. Skiles Majorie J. Snider Thomas R. Stahlnecker	1982	Paul M. Anderson* Kenneth R. Brockett Lyle S. Fisher Frank M. Kislan Harvey B. Manbeck* Timothy Matechek Michael R. Null Jeffrey R. Phillips Michael R. Raney Abolghasem Shahbazi Dennis P. Smith Nancy L. Smith Edward W. Stas Jeffrey L. Suhr Joseph M. Zulovich
1979	Eileen Fabian Jonathan Garcie Roland Gehman* Mark Kern Robert Laughner Sam McLaughlin Jim Schuler Karl Snyder N. H. Wooding*	1983	Edmond H. Albright Nels C. Bergstrom Glyn R. Boone James W. Fairchild
1980	Harold E. Brosius Robert L. Doneker Donald R. Daum*		

	Robert E. Graves*		Daniel E. Line
	Kenneth J. Guffey		Virendra M. Puri*
	Sidney L. Hull		Thomas Steen
	Douglas P. Ingle		Ronald L. Welling
	Steven R. Johnson		
	Ann M. Kyper	1987	Robin L. Firestone
	Dale A. Lehman		James W. Hilton*
	Vincent D. McHenry		Robin M. Kaufman
	Mark D. Myers		Louis A. Kopczyk
	Edgar G. Murakami		Yanbin Li
	Luis R. Perez		Steven C. McCoy
	Arthur H. Reede, Jr.		Terri T. Thomas
	Jon P. Schultz		David F. Troxell
	Mark D. Shaw*		Bradley W. Wright
	Terry L. Starr		Qiang Zhang
	Scott Q. Turn		
	Mark W. Zuber	1988	Randall G. Bock
			Larry K. Brannaka
1984	Andrew L. Blank		Larry S. Engle
	David E. Braun		Dwayne M. McGrody
	Frederick L. Charles		Roy F. Stevenson
	Harold J. Dubensky		Timothy S. Stombaugh
	Peggy S. Duffy		Donald R. Whitenight
	Jeffrey A. Friend		Paul D. Robillard*
	Jere W. Grube		
	Gregory D. Jennings	1989	Robin C. Brandt
	Kurt F. Martin		Wade W. Chamberlain
	Karen M. Mancl*		Renfu Lu
	Rory A. Miller		Cecilia Partsch
	Edward F. Orris		Henry L. Seidel
	Patrick O. Richie		Girish J. Subramaniam
	Gary V. Snyder		Michael J. Weiland
	Brian Stoltzfus		
	Patrick M. Wood	1990	Edelberto Alcairo
			Rite F. Blough
1985	William J. Hutzal		Donald L. Brough
	James F. Kjelgaard		Krista L. Cessna
	Aaron N. Lepro		Joel L. Cuello
	Dennis J. Murphy*		Paul H. Heinemann*
	Richard J. O'Donnell		Leon W. Heisey
	Leo F. Petrokonis		Ronaldo G. Maghirang
	Brian L. Roy		Lester O. Pordesimo
	Richard M. Smucker		Ahmad Tabatabaifair
			Yang Tao
1986	Edward J. Baranski		Zubin Varghese
	Timothy J. Bowser		
	Herschel A. Elliott*	1991	Ramaswamy Anantheswaran*
			Lewton A. Deichert

	Mark F. Field Mark O. Gardner Eric D. Lowe		Ray Witmer, Jr Min Zhang
1992	Kevin Brannan Crile Doscher Brian W. Engle Sunil Kamath Valdis J. Krumins Yansheng Liu Ragang Qi Holly Shoener Philip Squires Liuming Zhou	1996	Sajid Alavi Nathan M. Anderson Jeffrey Brown Bethany A. Elkin Amy L. Kaleita Ali B. Koc Vincent D. LaCross Brian Leib Joseph A. Millen Matthew C. Newton Thomas Owino Joel R. Peterson Vilayannur S. Radhakrishnan Aaron Stephens Roderick Thomas John T. Tyson Zhijie Wang Archie L. Williams
1993	Laurel Cisko Thomas D'Alfonso Tomas Fajardo Jerrold Grosh Niranjan Pathare Christine Retherford K. P. Sandeep Douglas Schaufler Kevin Smith Cheryl Vorhauer		
1994	Neylor Calasans Daniel E. Ciolkosz Shawn P. Duffy Handan Erturk Daniel Hindman Larry Hoover K. G. Karthikeyan Konrad R. Kerr Jeannie Leggett Feng Li Liu Li Tianxiang Lin Beth A. Lundmark Stephen R. Messier Devlina Mukheriee Timothy Riegel James P. Shedlauskas Kanwaljith Singh Anand Premdeep Singh Dhanoa Donald Smith M. S. Srinivasan Dirk Wahanik	1998	Michele Aukerman Michael Blose Sarah Bowen Linchang Huang Carl Johnson Chad Keating Sarah LaBance Jordana Langiotti William Marazzo Bhavishya Mittal David Newman Mark Swank Barrett Vaughan Rebecca Wargo Scott Wolf Susan Wood Troy Young
		1999	Kirk E. Barton Ali Demirci* Julia C. DeNardo Pamela Kayetta Shankar Radhakrishnan Rob Strobl Ben Wisniewski

2000	Matthew Brubaker Cho Byoung-Kwan Remegio Confessor Lula Ghebremichael Margaret Gitau Eric Greenwalt Todd Huber Judson Long Ranjan Rakesh Heather Schaetzle Walter Schneider Robert Shannon* Jason Sperry Dhal Sushant Stephen Walker	Nil Ozer* Thunyarat Pongtharangkul Gregory Stricker Michael Vassallo
2001	David Bidelspace Jesse Burow Autumn Hawke (Long) Kathiravan Krishnamurthy Sheri Lamphere Michael Reiner Nadia Sabeh Ratna R. Sharma Eric Steigman Michael Sword Pingjun Tang Nathan S. Watts Jeffrey Werner	2004 Mark Bechara Kelly Collins Joshua Eipper Patrick L. Henry Matthew Lawrence Changying Li Tan Meesook H. Oz Ozden Lindsay A. Peters Thomas L. Richard* Alexandra Srebro Jennine B. Terrill Erik M. Vranich Juan Zhao
2002	Michael A. Brown Deniz Cekmecelioglu Bryce Figdore Megan Hamilton Nitin Khandelwal Ramazan Kizil Shaowei Liu Diana Maimone Christina Pepple Erica Petre Ennis Veale Bradley J. Wagner Xinsheng Xie Guoshun Zhang	2005 Mark C. Baker Robert Brown Richard M. Forney Michael R. Kreider Todd J. Miserendino Michael Q. Nassry Haiyu Ren Farzaneh Rezaei Kevin B. Spangler Eric D. White Patrick J. Woolcock
2003	Katherine Bialka Jonathan Channell S. Matthew March	2007 William Brooks Douglas K. Brownell Qin Chen Reuben J. Dise Christian Fulkman Justin Hall Anjani K. Jha Nene Meltem Keklik Niharika Mishra Manolya Eser Oner Timothy Peters Jarad A. Puvak Dawn M. Sedorovich Natalie Shewski Scott Shore Jena Smolko

	John W. Stratton Maryse Williams Haijun (Daniel) Wu	2010	Seth Bomgardner Candace Boretzky Alex Devaux Christopher Ferry Jason Hegedus Joseph Herbstritt Daniel Hofstetter Megan Marshall* Howard Salis* Stella M. Sendagi Scott Strobel Ross Sundin
2008	Jeffrey M. Catchmark* Kuan-Chen Cheng Keith L. Hodge Benjamin Kemmerer Jude Liu* Andrew D. McLean Sara A. Pace Matthew Wagner		
2009	Sarah Adams Gulten Izmirliloglu Michael D. McKay Dustin Shearer Pamela Smith Serena Wang	2011	Curtis R. Covelli Duygu Ercan Gregory T. Fasick Collin B. Julius Andrew Neal Carly Wackerman Mohammad S. Zamil

## Appendix 10

### TAE Graduates

2004	Ardry, Tom Brandt, Kevin Gummo, David Hinich, Kent McCrea, Matt Myers, Bill Schwartz, Adam	2008	Condur, Steve Michael, Carl Richards, Mark
2005	Mauger, Wes Moyer, Matt Smith, Robert	2009	Cowden, Dillon Unger, Rick
2006	Diamond, Paul Lupini, Derek Rhoads, Dustin Stitt, Jason	2010	Avolia, Sam Bigelow, Wayne Byler, Luke Wellar, Kyle
2007	Bartlett, Brad Ruhl, Mark Saltzman, Randy Ulmer, Matt Wilkins, Andrew	2011	Delbaugh, Luke Frankenburger, Dustin Grice, Brent Haas, Derrick Hawn, James Smith, Christopher

