

## Part 5. Timeline in the Development of Organizations and Related Topics

*Note: the italic letters at the end of each entry refer to the references.*

- 1641** Earliest patent granted by colonial government in British colonies of America.
- 1770** Colonial population estimated at 2,205,000. *EB WWWW*
- 1780** USA population estimated at 2,781,000. *WWWW*
- 1787** Northwest Ordinance adopted as framework for development of upper midwest USA, followed by many modifications. *EB*
- 1790** First act of USA Congress covering patents and copyrights. Previously some patents were granted by colonies and states. *EB*
- 1790** First census in USA, as prescribed in the Constitution, with total population of 3,929,214. Number of farm workers not listed. *EB IPA WWWW*
- 1800** USA population of 5,308,483. Number of farm workers not listed. *IPA*
- 1810** USA population of 7,2309,881. Number of farm workers not listed. *CLAA IPA*
- 1820** USA population of 9,636,453; number of workers engaged in agriculture was 2,881,000 (72 percent). *CLAA WA*
- 1830** USA population of 12,866,020. *IPA*
- 1836** USA Patent Office established. *EB*
- 1840** USA population of 17,049,453 of which an estimated 9,012,000 were engaged in agriculture, mostly in farming. *CLAA*
- 1848** American Association for the Advancement of Science, AAAS, formed with headquarters now in Washington, DC. *<http://www.aaas.org/aboutaaas/> Jan. 1011*
- 1848** Frenchman Adhémar Jean Claude Barré De Saint-Venant, 1797-1886, appointed Chair of Agricultural Engineering at the Institute of Versailles, at the forefront in building bridges, roads, canals, erosion control, ponds and drainage; also known for his contributions to elasticity. *BDPE EB LM*
- 1850** USA population was 23,191,876. The farm population was estimated at 11,680,000, most of whom were engaged in farming. *CLAA NYTA*
- 1852** American Society of Civil Engineers, ASCE, formed; organization lapsed, then revived in 1867; now with headquarters in Reston, VA. *IDES SDCA*
- 1857** American Institute of Architects, AIA, formed. *IDES*
- 1860** American Society of Mechanical Engineers, ASME, formed, now with headquarters in New York, NY. *IDES*

**1860** USA population of 31,443,321 with estimated farm population of 15,141,000, most of whom were engaged in farming. *CLAA NYTA WWWW*

**1862** United States Department of Agriculture (USDA) established and Morrill Land Grant College Act (two separate acts) approved by President Abraham Lincoln. This act became the forerunner of the Land Grant College system. The USDA was given cabinet status in 1889. *AH(Apr1970) CLAA SA247(1982) YA1963*

**1862** Homestead Act passed by Congress. This made western land (USA) available for settlers and railroads. *CLAA AH(Oct1962) SA247(1982)*

**1866** Act passed by Congress legalizing use of metric units, still in effect in 2011. *CLAA YA1954*

**1870** USA population of 39,818,449 with 47.4 percent gainfully engaged in agriculture. *CLAA NYTA WWWW*

**1880** USA population of 50,155,783 with farm population of 22,9981,000 (estimated), most of whom were engaged in farming. *CLAA NYTA*

**1884** Institute of Electrical and Electronics Engineers, IEEE, began; originally the American Institute of Electrical Engineers, AIEE, which later incorporated the Institute of Radio Engineers, IRE. *IDES SDCA*

**1887** Hatch Experiment Station legislation passed by Congress providing federal grants to states for agricultural experimentation, followed in 1888 by the establishment of the Office of Experiment Stations in the USDA. *CLAA YA1899*

**1890** USA population of 62,947,714 with farm population of 26,379,000 (estimated), most of whom were engaged in farming. *CLAA NYTA*

**1893** National Association of Agricultural Equipment Manufacturers formed. This was the forerunner of the National Association of Agricultural and Vehicle Manufacturers (1884), the Farm Equipment Institute (FE, 1908), the Farm and Industrial Equipment Institute (FIEI, 1964), the Equipment Manufacturer's Institute (EMI, 1990), and the Association of Equipment Manufacturers (AEM, 2002). *HYMP*

**1893** Society for the Promotion of Engineering Education, SPEE, formed; renamed the American Society for Engineering Education, ASEE. *IDES*

**1894** American Society of Heating, Refrigeration and Air-Conditioning Engineers, ASHRAE, formed by the merger of the American Society of Heating and Ventilating Engineers in 1954 and the American Society of Refrigerating Engineers in 1959. *ASHRAE SDCA*

**1885** Tau Beta Pi, an honorary student engineering organization, formed; absorbed Pi Tau Sigma, another honorary student engineering organization, at a later date. *IDES*

**1896** Rural Free Delivery, RFD, established in USA for delivery of mail to rural areas. *CLAA FFFR*

**1897** Honor Society of Phi Kappa Phi organized at the University of Maine, Orono, ME, with name adopted in 1900. *FPKP89:2(2009)*

**1898** American Society for Testing Materials, ASTM, formed as a non-profit agency to promote development of standards and materials. *RS15(2008)*

- 1900** USA population was 75,994,575, of which the farm population was estimated at 29,414,000, most of whom were engaged in farming. *CLAA NYTA WA*
- 1901** National Bureau of Standards, NBS, established by act of Congress, name later changed to National Institute of Standards and Technology, NIST, in 1988. *NIST*
- 1902** Reclamation Act passed establishing Bureau of Reclamation (in various agencies through its history, now in USDA). *CLAA*
- 1902** Considered the birth of 4-H Clubs. Started as youth educational clubs by A. B. Graham in Ohio, 4-H Clubs became the responsibility of the USDA, encouraged by Seaman A. Knapp, ??-1911, of the USDA in 1907, and became a part of the Cooperative Agricultural Extension Service, established in 1914. *HHT YA1963*
- 1904** United Engineering Foundation formed in New York, NY. *IDES*
- 1905** Society of Automotive Engineers, SAE, founded as Society of Automobile Engineers, which merged in 1916 with the Society of Tractor Engineers; now headquartered in Warrendale, PA. *HPFM EA SAE*
- 1905** Bureau of Forestry originally established in 1901, renamed the Forest Service and transferred to U. S. Department of Agriculture. *CLAA*
- 1905** First professional agricultural engineering curriculum established in the USA at Iowa State University, headed by Jay Brownlee Davidson, 1880-1957. *GEA VCDFF*
- 1906** Illuminating Engineering Society, IES, formed, now Illuminating Engineering Society of North America, IESNA. *IDES*
- 1907** First state license issued to practice engineering, in Wyoming. Licensed individuals became known as professional engineers (PE). *PE(2007)*
- 1907** American Society of Agricultural Engineers, ASAE, formed by 18 charter members; renamed the American Society of Agricultural and Biological Engineers, ASABE, in 2005. Jay Brownlee Davidson, 1880-1957, was the first president. *HL1972 SDCA VCDFF*
- 1907** *Transactions of the American Society of Agricultural Engineers* published as a record of the Society. (The word "of" was not in the title until volume 9, 1916.) Continued through 1935 (see 1958). *AEI SDCA*
- 1908** American Institute of Chemical Engineers, AIChE, formed. *IDES SDCA*
- 1910** Forest Products Laboratory established in the Forest Service and located at the University of Wisconsin, Madison, WI. *CLAA YA1962*
- 1910** USA population of 92,228,496 of which the farm (rural) population was estimated as 32,077,000. *AS CLAA NYTA WA*
- 1912** Parcel post system of mail delivery established by Congress. *CLAA*
- 1913** First ASAE Standard published, which covered "conventional signs for Agricultural Engineers." *RS(Feb2008)*
- 1914** Smith-Lever Act passed by Congress to support cooperative agricultural state extension services to provide educational services. The first was at the University of Idaho in 1913. *CLAA YA1966*

**1916** U. S. Grain Standards Act enacted; modified and enlarged many times in the years that followed. Originally required compliance for grain sold in interstate and foreign commerce. *CLAA YA1954*

**1917** The Smith-Hughes Vocational Education Act approved by Congress to assist the states in providing vocational training, primarily in agriculture, home economics, and related activities. *CLAA*

**1918** American National Standards Institute, ANSI, formed by several organizations. It became the USA representative on the International Standards Organization, ISO. *RS(Feb2008)*

**1920** American Engineering Council, AEC, formed with Herbert Hoover, 1874-1964, who later became president of the USA, as its first president. It was the governing body of the Federated American Engineering Societies, FAES, which was encouraged to devote efforts to the public interest, joined by ASAE (continued until 1940). *SDCA*

**1920** National Council of Engineering Examiners, NCEE, formed in USA, now National Council of Examiners for Engineering and Surveying, NCEES, with headquarters in Clemson, SC. *IDES*

**1920** *Agricultural Engineering* first published as a journal by ASAE. Its first editor was Frank P. Hanson, followed by Raymond Olney in 1921 and others through the years. The journal was continued through 1993, then renamed *Resource*. *HYMP SDCA*

**1920** ASAE initiated Technical Divisions and Geographical Sections, adjusted over the years to serve interests of members and goals of the organization. *RSNov(2007)*

**1920** USA population of 106,089,000 of which 31,614,000 were living on farms. *AS CLAA NYTA*

**1921** Raymond Olney, 1885-1980, hired as part-time secretary-treasurer of ASAE and editor of publications (see 1925). *ASABECal SDCA*

**1923** Office of Director of Extension Work (in home and agriculture) and the Extension Service established in the USDA. *CLAA*

**1924** Farm engineering and testing unit formed at Oxford University, UK. It became the Institute for Research in Agricultural Engineering in 1932, the National Institute of Agricultural Engineering in 1942, AFRC Institute of Engineering Research in 1986, and AFRC Silsoe Research Institute in 1991, at Silsoe, Bedfordshire, UK. *AE(Sept1991)*

**1925** Raymond Olney, 1885-1980, named full-time secretary, treasurer, and publisher of ASAE serving from 1925-1953 and treasurer until 1956. ASAE permanently established in St. Joseph, MI. *SDCA*

**1925** American Dry Milk Institute, ADMI (USA and Canada), formed in Chicago, IL. Considerable credit for the success and contributions of the organization given to Charles Earl Gray, 1881-1944. *IB WWWW*

**1927** Ralph A. Palmer, 1904-2001, joined ASAE staff as assistant secretary. He handled many assignments until his retirement in 1969, with breaks for service with the CCC in 1932-1936 and with the U. S. Air Corps in 1941-1945. *ASABEStaff SDCA GMP*

- 1927** ASAE adopted standard specification for tractor power take-off components to promote implement-tractor interchangeability, leading to numerous ASAE Standards.  
*ASABE Staff RS(Feb2008)*
- 1928** Buchanan amendment to the USDA appropriation by Congress provided for soil erosion research.  
*CLAA YA1970*
- 1928** Future Farmers of America, FFA, founded to provide preparation for leadership in agriculture.  
*CLAA*
- 1929** MidWest (Farm Buildings) Plan Service initiated at Iowa State University, led by Henry Giese. In 1933 about 15 land grant universities and USDA were participating.  
*RS(Mar2000) SDCA*
- 1930** USA population of 122,775,000, with a rural population of 30,529,000.  
*AS  
NYTA USBF*
- 1930** President Herbert Hoover signed bill authorizing Bureau of Agricultural Engineering, created in 1931 in USDA.  
*SDCA*
- 1932** Engineers' Council for Professional Development, ECPD, formed in New York, NY; now known as Accreditation Board for Engineering and Technology, ABET, with headquarters in Baltimore, MD.  
*IDES*
- 1932** Society of Manufacturing Engineers, SME, formed.  
*IDES*
- 1933** National Council of Student Branches of ASAE formed, although student branches had been formed much earlier at universities, with four recorded in existence in 1919: Iowa, Nebraska, Mississippi, and Ohio.  
*SDCA GMP*
- 1933** Soil Conservation Service, SCS, created by Congress, in Department of Interior, transferred to USDA in 1935; initiated studies on vegetative waterways in 1935, beginning in South Carolina, Oklahoma, Pennsylvania, and other states.  
*ASABE Cal  
CLAA RS(Feb2000)*
- 1933** First erosion control project launched in Coon Valley, WI.  
*GMP*
- 1933** Tennessee Valley Authority, TVA, established by Congress. It led to considerable agricultural engineering studies and development.  
*GEA SDCA*
- 1934** National Society of Professional Engineers, NSPE, formed in New York, NY, now with headquarters in Alexandria, VA.  
*IDES*
- 1935** Rural Electrification Administration, REA, established by executive order of the president, approved by Congress in 1936 and incorporated into the USDA in 1939.  
*ASABE Cal CLAA GEA RS(2007)*
- 1935** Bankhead-Jones Act passed by Congress expanded support for agricultural research in USDA.  
*CLAA*
- 1935** National Soil Dynamics Laboratory (now National Tillage Machinery Laboratory) established by the USDA at Auburn University, Auburn, AL.  
*HYMP HL1990 CLAA  
RS4(2007) WWA YA1960*
- 1936** Canadian Council of Professional Engineers, CCPE, founded in Ottawa, Canada.  
*SDCA*

- 1937** First Soil Conservation district formed by USDA. *CLAA*
- 1938** Federal Food, Drug, and Cosmetic Act passed by Congress, implemented by the Food and Drug Administration, FDA. *FT(Sept1989)*
- 1938** Industrial Research Institute, IRI, founded in New York, NY, now with headquarters in Washington, DC. *IDES*
- 1939** Agricultural Marketing Service, AMS, established by USDA. *CLAA*
- 1939** Institute of Food Technology, IFT, formed, with headquarters now in Chicago, IL; includes a food engineering unit and publishes *Food Technology*. *FT(Sept1989)*
- 1940** USA population of 131,820,000 including estimated farm population of 30,840,000. *AS CLAA NYTA USBF*
- 1941** USDA reorganized by placing research and related activities under the direction of Agricultural Research Administration, ARA. *YA1962*
- 1941** American Society for Nondestructive Testing, ASNT, formed. *IDES*
- 1942** Grand Coulee Dam completed on Columbia River, in Washington state, provided electricity and irrigation to eleven western states. *GEA*
- 1943** Engineering research functions transferred from Bureau of Agricultural Chemistry and Engineering to Bureau of Plant Industry, Soils, and Agricultural Engineering. Unit superseded by ARS in 1953. *USDA*
- 1944** Following cooperative work of three associations initiated in the late 1920s, the Modern 3-A Sanitary Standards established to provide a basis for sanitarians, equipment fabricators, and processors to assure public health for food processing equipment (see 2002). *ASSI*
- 1944** Small watershed program initiated by USDA as a part of the Flood Control Act and other watershed programs in following years. *RS(Feb2000)*
- 1945** Bankhead-Flannagan Act approved by Congress for expansion of county extension work for farm and home. *CLAA*
- 1945** United Nations Food and Agriculture Organization, FAO, organized with headquarters in Rome, Italy. *CLAA*
- 1947** International Organization for Standardization, ISO, formed in Geneva, Switzerland. The USA member body is American National Standards Institute, ANSI, New York, NY, formed in 1918. The Standards Council of Canada, SCC, Ottawa, Canada, is also a member body of ISO. *IDES RS15(2008)*
- 1947** American Institute of Biological Sciences, AIBS, formed, with headquarters in Washington, DC; publishes *BioScience*. *AIBS*
- 1948** Institute of Industrial Engineers, IIE, formed. *IDES*
- 1948** Union Panamericana de Asociaciones de Ingenieros, UPADI, formed, with headquarters now in San Juan, PR. *IDES*
- 1949** Rural telephone program authorized by Congress and amended to Rural Electric Administration, REA, program. *CLAA YA1960*

- 1949** Institution of Agricultural Engineers, IAE, formed, London, England. *SDCA*
- 1950** USA population of 151,132,000 of which 54,056,000 lived in rural areas, of which 31,431,000 were nonfarm rural and 25,058,000 estimated as farm population. Previous to 1950 there was no clear distinction (or confusing information) between rural, agriculture, and farm population. An estimate is that eleven percent of the population was gainfully employed in agriculture, not necessarily on the farm. *AS CLAA USBF*
- 1950** National Science Foundation, NSF, authorized as an independent federal agency in Washington, DC, to fund research, with headquarters now in Arlington, VA. Engineering established as a separate directorate in 1981. *IDES SDCA*
- 1950** Society of Women Engineers, SWE, founded. *IDES*
- 1950** Junior Engineering and Technology Society, JETS, founded to promote engineering and technology to high school students. *PE(June2010)*
- 1950** First of a series of six agricultural engineering books financed by the Ferguson Foundation and published by John Wiley and Sons. The first book was *Farm Structures*, by H. J. Barre and L. L. Sammet. *SDCA*
- 1953** Agricultural Research Service, ARS, established in the USDA replacing the Agricultural Research Administration, ARA. Agricultural engineers were placed under two large administrative areas: the Agricultural Research Service, ARS, and the Agricultural Marketing Service, AMS. Within the ARS, agricultural engineers were in the Soil and Water Conservation Research Division and the Agricultural Engineering Research Division (headed by E. G. McKibben). Within the AMS, agricultural engineers were in the Marketing Research Division. *CLAA SDCA*
- 1953** Foreign Agricultural Service, FAS, and Agricultural Marketing Service, AMS, combined into a marketing and foreign agricultural group by USDA. *USDA*
- 1953** Frank B. Lanham named secretary and chief executive officer of ASAE, after an initial appointment in 1952 at ASAE headquarters, serving until 1955, at which time Ralph A. Palmer was named interim secretary. *SDCA*
- 1954** *Agricultural Engineers Yearbook*, edited by Ray Olney and James Basselman, first published by ASAE. *AEI SDCA*
- 1955** The American Academy of Environmental Engineers, AAEE, formed, with headquarters now in Annapolis, MD. *AAEE*
- 1956** ASAE became an associate member of Engineers Joint Council, EJC, and advanced to constituent member in 1961. *SDCA*
- 1956** *Journal of Agricultural Engineering Research* by the British Society of Agricultural Engineers, Silsoe, England, and published by the Academic Press, followed by the journal *Biosystems Engineering* in 2002, later published by Elsevier, Oxford, UK. *AEI IDAEI*
- 1956** Jimmy L. Butt named Executive Vice President of ASAE, serving through 1986. *SDCA TDC*

- 1958** ASAE began publishing of a new series of *Transactions of the ASAE* (2006 and later, *Transactions of the ASABE*), primarily devoted to reviewed research articles. An earlier edition of *Transactions* was published 1907-1935 (see 1907). *AEI SDCA*
- 1958** Canadian Society of Agricultural Engineering, CSAE, formed; renamed Canadian Society for Bioengineering (CSBE) (La Société Canadienne de Génie Agroalimentaire et de Bioingénierie) in 2004. *IDAEI SDCA*
- 1959** *Canadian Agricultural Engineering*, journal published by CSAE. *AEI SDCA*
- 1959** Alpha Epsilon, honorary society for Agricultural Engineers, formed at University of Missouri, Columbia, MO, Donald Brooker, co-founder; celebrated golden anniversary in 2009. *ASABECaI*
- 1960** Importance of biological engineering in educational departments, industry and ASAE brought to the front by G. W. Giles, followed in 1965 by the incorporation of "Biological" in the name of the academic program at North Carolina State University, Raleigh, NC. *TDC*
- 1960** USA population of 179,323,175 of which 54,042,000 were rural with 40,567,000 identified as nonfarm rural and 13,474,000 as farm rural. Census data after 1960 began to distinguish separately farm and agricultural workers and rural population as a part of the total USA population, although references differ in numbers of people involved. Census data available also include the average size of farm, which might give a measure of the extent of mechanization and electrification, but this is not given here because of the changing base of total land used for farming/agriculture. *AA USBF*
- 1961** ASAE became a full member of CIGR (Commission Internationale du Genie Rural) after several years of association. CIGR originally formed in 1930 with the first meeting in Liege, Belgium. *SDCA*
- 1961** *Agricultural Engineers' Handbook* published by McGraw-Hill Book Co., with C. B. Richey, editor-in-chief, placing agricultural engineering alongside popular handbooks of other engineering professions. Reissued as a Classic Handbook by the publisher in 1982.
- 1961** NICET, National Institute for Certification of Engineering Technologies (originally Technicians, now Technologies and Technicians), formed. *PE(Jan/Feb2010)*
- 1963** Cooperative State Research Service in USDA followed the Cooperative State Experiment Station Service. *CLAA*
- 1964** ASAE abandoned recognizing academic curricular matters and joined Engineers Council for Professional Development, ECPD, now known as Accreditation Board for Engineering and Technology, ABET, and Canadian Council of Professional Engineers, CCPE, for all engineering accrediting in the USA and Canada. *SDCA*
- 1964** Understanding developed between ASAE and SAE regarding the development of consensus standards for farm machinery. A new memorandum of understanding developed in 1995 and again in 2004. *HYMP ASABEStaff*
- 1964** National Academy of Engineering, NAE, formed in USA with headquarters in Washington, DC. *IDES*
- 1965** First agricultural engineer, Roy Bainer, 1902-1990, elected to National Academy of Engineering, NAE. *SDCA TDC*



- 1965** Consumer and Marketing Service succeeded the Agricultural Marketing Service in the USDA. *USDA*
- 1966** ASAE officially joined the American Standards Institute, ASI, the forerunner of the American National Standards Institute, ANSI. *ASABEStaff*
- 1967** Sixtieth annual ASAE meeting held at University of Saskatchewan, first ASAE meeting held outside of USA, at the invitation of CSAE. *AE(1967) ASABEStaff*
- 1968** Membership, Professional and Technical Councils established as units of Board of Directors of ASAE. *TDC*
- 1969** New headquarters building (11,000 sq. ft.) constructed by ASAE in St. Joseph, MI, dedicated in 1970 with an addition (6000 sq. ft.) to the headquarters building in 1979. *HL2007 TDC*
- 1970** USA population of 203,211,926 with farm population of 9,762,000. *AS AA TWA*
- 1970** Occupational Safety and Health Administration, OSHA, formed as a unit of the Department of Labor (USA). *SDCA*
- 1972** Discipline-oriented divisions in the USDA, with their line management authorities, eliminated in which the Agricultural Engineering Research Division was abolished. Agricultural engineers were dispersed in regional and area-wide interdisciplinary management system. *USDA*
- 1972** Earth Resources Technology Satellite launched to collect data on agriculture and natural resources with Earth Resource Observation System, EROS, as center for data, managed by U. S. Geological Survey. *AOAA*
- 1973** American Consulting Engineers Council, ACEC, formed. *IDES*
- 1975** ASAE joined the Council for Agricultural Science and Technology, CAST. *SDCA*
- 1977** National Soil Erosion Research Laboratory, NSERL, funded by Congress, established at Purdue University to study and predict soil erosion by water. *RS(Feb2000)*
- 1979** Continuing education units, CEUs, approved by ASAE as a means of recognizing participation in meetings and for qualifying for continuing professional engineer's registration. *TDC*
- 1979** American Association of Engineering Societies, AAES, formed with headquarters in Washington, DC, incorporated several activities of the Engineers Joint Council, EJC, and the American Engineering Association, AEA. *TDC*
- 1980** Students in engineering societies participated in the WISE program (Washington Internship for Students of Engineering), with two ASAE interns, followed by others in following years. *TDC*
- 1980** ASAE began participating as a member of American Association of Engineering Societies (AAES). *TDC*
- 1980** USA population of 227,719,000 of which the farm population (as farm workers) is estimated at 6,051,000 (2.7 percent), illustrating, in part, the role of mechanization and electrification of agriculture, particularly since World War II *AS WA*

- 1980** International Commission of Agricultural Engineering, CIGR, held first meeting in USA hosted by ASAE and Michigan State University *TDC*
- 1981** Science and Education Administration, SEA (established in 1978) abolished and ARS and other units of USDA reestablished. *USDA*
- 1985** *Applied Engineering in Agriculture*, a new publication initiated by ASAE of peer-reviewed, application-oriented articles, as contrasted with the research-oriented emphasis of *Transactions of the ASAE*. *TDC*
- 1986/1987** Agreement with the Canadian Society of Agricultural Engineering, CSAE, developed in a memorandum of understanding with ASAE. *ASABE Staff TDC*
- 1986** Organic act of the National Science Foundation, NSF, changed by Congress to provide authorization for engineering to be accorded equal status with the sciences. The organization of NSF was changed in 1981 on the basis of recommendations of the National Science Board, NSB, the governing body, to provide a Directorate for Engineering. *IDES*
- 1987** Roger Castenson named Executive Vice President of ASAE, serving until 1996. *TDC*
- 1987** Standard Industrial Classification (SIC) Manual, including engineering and processing aspects of food, issued by Office of Management and Budget, Washington, DC. *WEFST*
- 1987** ASAE Foundation formed, following five years of development, with Robert H. Tweedy as president. *TDC*
- 1988** National Institute of Technology and Science, NIST, became the name of the former National Bureau of Standards, NBS, in the Department of Commerce (USA). *NIST*
- 1989** ASAE and CSAE held joint annual meeting in Quebec City, Canada. *TDC*
- 1990** USA population 249,975,000 of which the farm population involved in farming was 4,591,000 (1.8 percent). *AS WA*
- 1992** American Institute for Medical and Biological Engineering, AIMBE, formed. Several ASAE members had leadership roles in the new organization. *IDES*
- 1993** Aquacultural Engineering Society formed, with Jaw-Kai Wang as first president, serving for two terms (1993-1995). *Personal correspondence*
- 1994** *Resource: Engineering and Technology for a Sustainable World*, a new publication replaced *Agricultural Engineering*, which was discontinued in 1993. *TDC*
- 1994** Professional Engineering Institute, PEI, formed as the first community of members in ASAE. *TDC*
- 1995** First issue of *Journal of Agricultural Safety and Health* published by ASAE.
- 1995** Institute of Biological Engineering, IBE, formed as a separate organization with co-operation of ASAE *TDC*
- 1996** ASAE changed from two to one international meeting per year, based on membership action of 1994. *RS3(1996)*
- 1996** Russell Hahn named Interim Executive Vice President of ASAE. *TDC*
- 1997** M. Melissa Moore named Executive Vice President of ASAE, serving until 2009. *TDC*

- 1997** New structure of organization of ASAE approved by the membership in which the Society would be governed by a 14-person Board of Directors and the operations managed by four coordinating councils: meetings, membership, publications, and standards. TDC
- 1999** Joint meeting of ASAE and CSAE held in Toronto, Canada. TDC
- 1999** *CIGR Handbook of Agricultural Engineering* (in five volumes) published by ASAE in conjunction with CIGR, Osamu Kitani, Editor-in-Chief. ASABEStaff
- 1999** National Academy of Engineering, NAE, issued report *Top 20 Engineering Achievements of the 20th Century*, including agricultural mechanization, electrification, and household appliances. GEA TDC
- 2000** USA population of 281,421,906. The farm population was not separately listed. WA
- 2001** Electronic access to all current standards provided to ASABE members; electronic communications developed for several committees and council known as eForums by 2007. ASABEStaff
- 2001** ASAE Online Technical Library launched providing full-text publications to members and subscribing libraries. ASABEStaff
- 2002** 3-A Sanitary Standards, Inc. (3-A SSI), including FDA and USDA, as well as other groups involved in public health, now headquartered in McLean, VA. ASSI
- 2002** Biological Engineering Division established in ASAE. TDC
- 2002** Cooperative agreement with the Indian Society of Agricultural Engineers, ISAE. ASABEStaff TDC
- 2002** Association of Overseas Chinese Agricultural, Biological and Food Engineers, AO-CABFE, agreement with ASAE developed. ASABEStaff
- 2002** *Biosystems Engineering*, a monthly periodical, introduced as a publication of the Silsoe Research Institution, UK (formerly *Journal of Agricultural Engineering Research*; first issue was vol. 81, no. 1,) published by Academic Press and later by Elsevier Science, Ltd., UK. SD
- 2002** International Meeting of ASAE in cooperation with CIGR in Chicago, IL. TDC
- 2003** Ergonomics, Safety, and Health Division of ASAE formed incorporating several society activities, including the safety committee formed in 1954 TDC
- 2003** The 50th Edition of the *ASAE Standards Book* printed and distributed. ASABEStaff
- 2004** International meeting of ASAE and CSAE held at Ottawa, Canada, hosted by CSAE, further strengthening the joint activities of the American Society of Agricultural Engineers and the Canadian Society of Agricultural Engineering. TDC
- 2004** Canadian Society of Agricultural Engineering, CSAE, became the Canadian Society for Bioengineering, CSBE (La Société Canadienne de Génie Agroalimentaire et de Bioingénierie, SCGAB). ASABEStaff
- 2004** Chinese Society of Agricultural Engineers, CSAE, signed memorandum of understanding with ASAE for exchange of information. ASABEStaff

- 2005** American Society of Agricultural Engineers, ASAE, renamed American Society of Agricultural and Biological Engineers, ASABE; recognizing that ASABE had become the engineering society concentrating on the application of engineering practice to biological products, particularly plants, animals, poultry, fish and forests, except medicine. TDC  
RS(July2007)
- 2005** Accreditation of biological engineering programs by ABET (formerly ECPD) assigned to ASABE, becoming the professional engineering society concentrating on application engineering to biological systems and products (plants, animals, forests, fish (excluding medical)). TDC
- 2005** Education Division established in ASABE to cover the field of education in its broadest aspects. TDC
- 2006** First woman elected fellow in ASABE, Mary Leigh Wolfe, professor of Biological Systems Engineering at Virginia Tech. ASABECal
- 2006** ASABE increased activity and took over additional responsibilities with International Standards Organization (ISO). ASABEStaff
- 2007** ASABE approved by ANSI to administer ISO technical committees dealing with Aquaculture and Fisheries, in addition to agricultural machinery. ASABEStaff
- 2007** 100th Anniversary of ASABE (originally ASAE) meeting held in Minneapolis, MN, addressed by former USA president William (Bill) Clinton. RS(2007)
- 2007** Korean Society of Agricultural Engineers, KSAE, signed memorandum of understanding for exchange of information, research, and people. ASABEStaff
- 2007** CEES, Center for Engineering Ethics and Society, established by National Academy of Engineering, initially supported by Harry Bovay, of Texas. PE(Nov2009)
- 2008** *Biological Engineering*, a new peer-reviewed journal initiated by ASABE. ASABE
- 2008** European Society of Agricultural Engineers, EurAgEng, signed memorandum of understanding with ASAE to exchange networking systems, publication information, conferences, workshops and symposia. ASABEStaff
- 2009** Asociación de Ingenieros Agrícolas de Colombia, ASIAC, developed cooperative membership agreement with ASABE. ASABEStaff
- 2009** Mark D. Zielke named Interim Executive Vice President of ASABE. ASABE
- 2009** CSBE/SCGAB joined the Agricultural Institute of Canada, which took over publication of the online journal *Canadian Biosystems Engineering*. AIC
- 2010** Darrin Dollinger named Executive Director of ASABE. The position was formerly titled Executive Vice President. RS(Jul/Aug2010)