

# Davidson Dispatch

December 1990

Volume 2, No. 1

Agricultural Engineering Department / Davidson Hall / Iowa State University / Ames, Iowa 50011

## Thoughts and Views

*By James R. Gilley*  
*AE Dept Head*

It doesn't seem possible that another year has gone by. It seems like only yesterday I wrote my first comments for our 1989 alumni newsletter. Much has happened in Agricultural Engineering and on the ISU campus this past year. We were surprised to hear that Dr. Gordon Eaton resigned as president of ISU, effective October 19, to pursue his new position as director of the prestigious Lamont-Doherty Geological Observatory of Columbia University. Dr. Eaton was president for approximately four years. He sometimes created controversy on campus. Yet, that is often a requirement for that position, and he was a good friend of Agricultural Engineering. The University is now in the process of selecting a new president. The committee says finalists should become public sometime in February.

Closer to home, the Agricultural Engineering faculty have spent a good portion of the last year preparing a report charting the future direction of our department. Fundamental to our future course are our academic programs, research emphasis and extension thrusts. We have been examining each of these areas in light of similar programs across the United States and have proposed two primary changes in our department at ISU. First, we recommended changing the name of the Department to the department of Agricultural and Biosystems Engineering. Second, we recommended changing the curricula and name of the Agricultural Mechanization program to Agricultural Systems Technology.

We anticipated these changes would not be welcomed with open arms across the campus and we were correct. Presently, the department name change has been referred to another study committee. We hope that the issue can be resolved in time for the December Board of Regents meeting. The curriculum in Agricultural Systems Technology has been accepted in the College of Agriculture and the Faculty Senate. It now awaits formal approval by the Board of Regents.

We have undertaken these recommendations after a great deal of thought and discussion both within the department and university and among our clientele groups and alumni. First, I must emphasize that the name change does not represent a complete change from our present strengths. Rather, we hope to build on our relationships with our present agricultural engineering clientele, the agricultural equipment industry and others, expanding in other areas in which we have capabilities. We anticipate maintaining our present undergraduate options and adding another

in biosystems engineering. We will keep you informed as the process advances.

The undergraduate enrollment in Agricultural Engineering has decreased from 165 students in 1978 to 59 in 1988. This decline has begun to turn around, and we presently have 65 undergraduate students. Demographics would indicate that the student population from which we have historically drawn the majority of our students will continue to decrease well into the next century.

Further, we are all familiar with the economic situation in production agriculture during the 1980's. These factors have combined to place our programs in difficulty. We must diversify, and search for new programs much as the agriculture industry has done the past few years.

*Continued on page 9.*

## Agricultural Systems Technology

Beginning in fall 1991, the department's curriculum in the College of Agriculture will be called Agricultural Systems Technology (AST). The AST curriculum replaces Agricultural Mechanization, which was begun in 1973 and has 222 graduates. The new name was selected by the faculty after a year of consultation with high school students and Ag Mech majors, alumni, and employers. The faculty think the new name better reflects the scope of this technology management curriculum, which still includes mechanization courses, but now encompasses much more. The new curriculum gives greater emphasis to computers, systems technology and communications. Skills-type courses have been reduced.

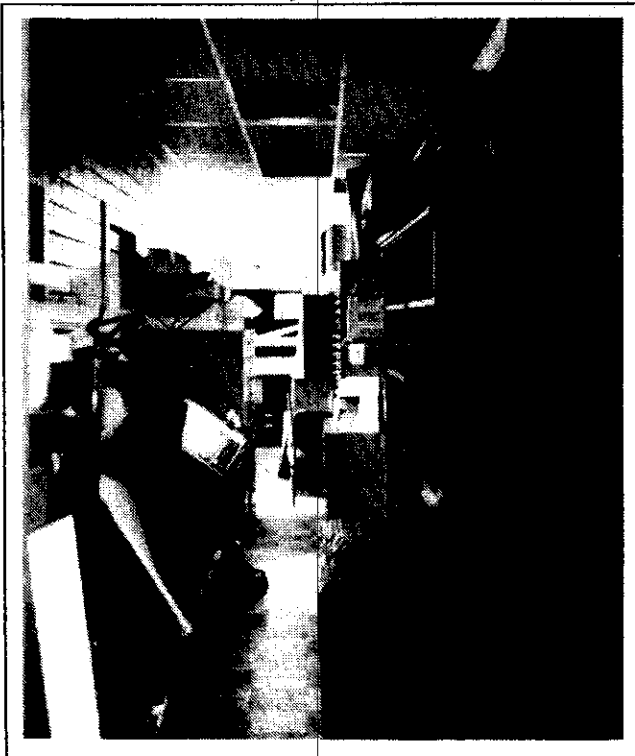


## Renovation update

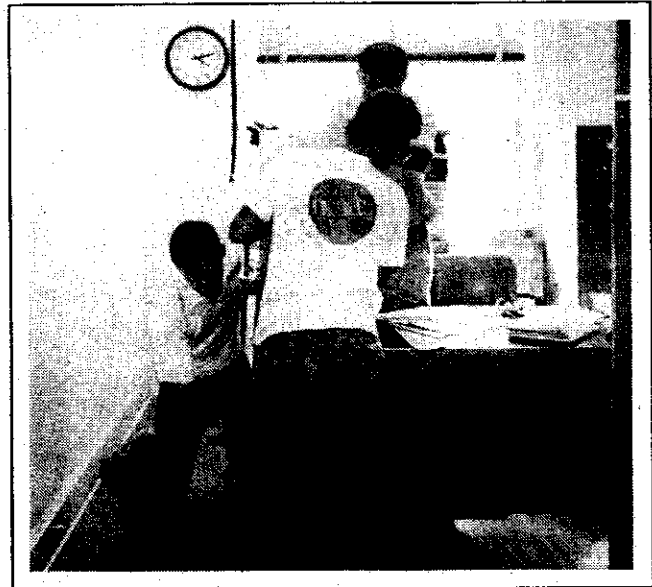
In last year's newsletter, we reported the need to improve department facilities. We are happy to report that a new building for Agricultural Engineering was placed on the Board of Regents' five-year capital priority plan. This is the first time that we have been identified on the Regent's construction plan. We must work with the legislature to receive higher priority for funding. This will require efforts from everyone. We will be contacting you to help us as this essential project develops! In the meantime, Davidson Hall has been receiving a face lift. In recent months several changes have been made:

- All faculty are now on second floor.
- All faculty and staff offices have been carpeted or retiled.
- The hall ceilings on second floor have been dropped and new lighting installed.
- Room 200 has been enclosed to make a much-needed conference room.
- New computer labs are being developed in rooms 103, 105 and 107.
- A departmental library and coffee room are two more rooms scheduled to be completed shortly.
- A Professor Emeritus office has been established in room 109.

The temporary displacement of staff and equipment as carpet was installed gave many people the excuse to clean. As a result, many offices have received fresh paint and a new look.



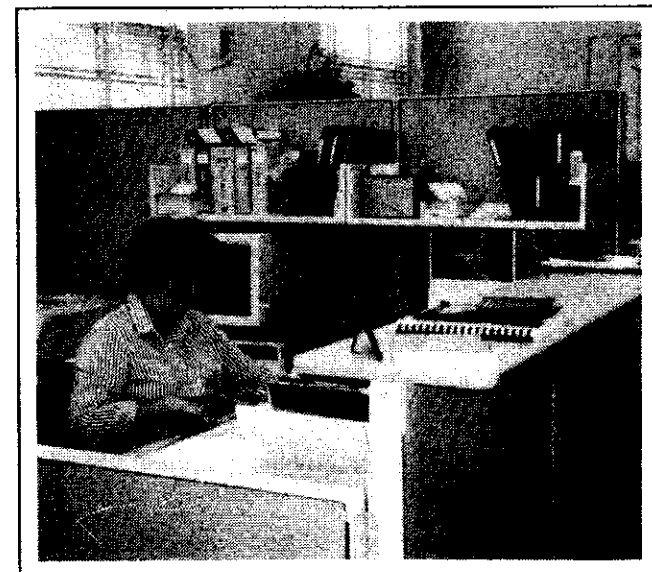
The 2nd floor hallway, the catch all as offices got carpeting.



Carl Bern seeks student help in moving back in.



Jan Leslie -- a secretary's work is never done!



Barb Kalsem at her desk in the newly done main office.

## Faculty and Staff News

### New Faculty and Staff

**Steve Hoff** joined the faculty Nov. 19 as an assistant professor in the structures and environment area working with animal environment. He recently received his PhD from the University of Minnesota. Steve is a native Minnesotan. He and his wife Beth have two children.

**Charles "Chuck" Schwab** is the new farm safety specialist assistant professor. Schwab will conduct research and work through the extension service on farm safety programs. Schwab received his degrees from the University of Kentucky where he also worked as a research associate, specialist and a post doctoral scholar before moving to ISU. His appointment began Aug. 15, 1990.

**U. Sunday Tim** is a new assistant professor in the department and will be conducting research and teaching in the soil and water engineering discipline. Tim's research interests include nonpoint source pollution modeling, computer modeling of fate and transport of contaminants in variably saturated media, water quality, application of artificial intelligence and decision support software in environmental problems, and the application of geographic information systems (GIS) in natural resource management. Tim received his BEng and PhD degrees from Concordia University, Montreal, Canada. Before coming to ISU in Oct. 1990, he was a post doctoral research associate in the Department of Agricultural Engineering, Virginia Polytechnic Institute and State University, Blacksburg, Virginia.

**Glenn A. Church II** came to Midwest Plan Service Sept. 1, 1989, to take over as manager. Glenn recently received his PhD in biological and agricultural engineering from North Carolina State University in Raleigh, NC. He and his wife, Lori, are both originally from Florida, but seem to be adapting well to the Iowa Climate.

**Connie Petrich** began working in the new Administrative Assistant position Sept. 17. Petrich is familiar to the department because she worked as a secretary since August 1987. Connie received her BS degree from Southwest State University in Marshall, MN majoring in business education and accounting. She hopes to finish her MS in Business Administrative Sciences at ISU in 1991. Her husband Scott is also a graduate student in the chemistry department.

**Troy Chandler** was hired Oct. 1, 1989 as a Drafter/Engineering Assistant for Mark Huss and the Ag. Experiment Station-Engineering Services.

### Retirements

**John Pedersen**, Midwest Plan Service manager for 34 years, retired December 31, 1989. An open house and dinner were held on January 12, 1990, in Ames. The event was well-attended by friends and colleagues, one of whom was Don Jedeke of Illinois who was the MWPS manager from 1950 to 1955. Don Jones, Mr. and Mrs. Bill Friday from Purdue University and Gary Riskowski from the University of Illinois were also able to attend.

**Orville Rutzen** retired from the Agronomy/Ag Engineering farm on March 31, 1990.

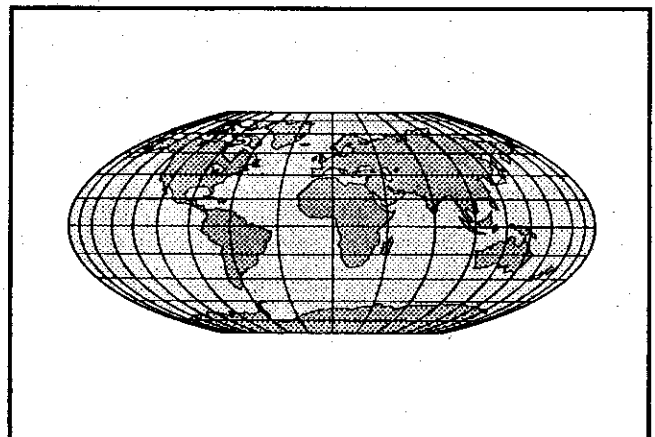
### Visitors

**Satish Kumar Sondhi**, Ph.D. from PAU Ludhiana, India worked with Ramesh Kanwar on ground water quality projects for three months (November 89-February 90) under FAO foreign exchange program.

**Kraen Ole Birkkjaer** of the Danish Farm Advisory Service and **Georges Darche** of Agriculture Canada each spent several days in September visiting farms in Central Iowa with Vern Meyer.

**Boris Runov**, Ph.D., Academician and Chairman of the Council of Extension Service, USSR, visited the department Nov. 1 and 2. Runov was among the first 17 Russian scholars who came to America in 1960 as part of the first exchange program between our countries.

**Luis Pereira**, Ph.D., and **Jose Teixeira**, Ph.D., visited the department Nov. 6-11. They are both from the Department of Agricultural Engineering, Technical University of Lisbon, Portugal. Pereira was here to work with Jim Gilley and Jerry Hatfield on a NATO irrigation project. Teixeira is Pereira's former graduate student; he spent much of his time becoming familiar with various computer applications in the department.



## Faculty Travels

**Vern Meyer** visited Sweden, Denmark and the Netherlands on June 6-28, 1990, with an ISU swine extension team to videotape swine facilities to show what the countries are doing to meet animal welfare concerns.

**Ramesh Kanwar** visited the Asian Institute of Technology, Bangkok in October 1989 and gave a seminar to faculty and graduate students on drainage water quality research at ISU. Kanwar also presented a paper at the Caribbean International Conference on Tropical Hydrology in Puerto Rico in July 1990. He visited Santa Domingo, Dominican Republic with USAID officials on water management projects in July 1990.

**Carl Anderson** presented a paper at the Agro Physical Research Institute in Leningrad on June 19, 1990. The conference was on predicting the effects of climate change in crop yields.

**Jim Baker** participated in the National Academy of Sciences (NAS) and Romanian Academy workshop on Monitoring and Managing Natural Resources, which took place in Bucharest, Romania, October 8-18, 1990.

**Stu Melvin and Dwaine Bundy** traveled to northern Europe in May and June to obtain information on environmental regulations for animal production systems in various countries. They traveled through The Netherlands, Belgium, France, and Germany together, then Bundy traveled to Denmark and Sweden, while Melvin traveled to the United Kingdom. They visited research facilities, universities, regulatory offices, and farmers' organizations.

In some areas more manure is produced than can be safely applied to the soils. Therefore, manure is being transported to other regions in the country, and, in some cases, transported out of the country after extensive treatment to produce dried pelleted fertilizer.

Much of the recent odor measurement technology has been developed in Europe, so information regarding the measurement and control of animal manure odors was collected and used to initiate odor measurement work on the ISU campus.

Siting requirements for animal production systems was also of interest. The information obtained is being used to formulate recommendations to minimize environmental and legal concerns surrounding construction of large animal production facilities in Iowa and the Midwest.

**Charles Hurburgh** traveled to Japan and Korea December 8-17, 1989, to conduct seminars on soybean quality for technical and marketing people. The seminars were accompanied by discussions and idea exchanges. This trip was made through the American Soybean Association.

**Manjit Misra** traveled to New Delhi, India, to chair the technical session on seed handling at the International Seed Science & Technology Conference.

**James Gilley** traveled to the Soviet Union last November, with John Pesek and Elwynn Taylor in Agronomy, he visited the Agrophysics Institute in Leningrad. This program is a part of an exchange agreement between ISU and the V.I. All-Union Academy of Agricultural Sciences (VASKHNIL). This agreement provides a framework for the colleges, departments and research centers of ISU to negotiate research exchanges directly more than 200 institutes of the academy. The primary provisions of the agreement are:

- Exchanges of delegations to establish mutual scientific interests.
- Exchange of senior scientists.
- Development of joint research projects.

ISU is the first western academic institution in modern times to have signed a scientific agreement of such magnitude with the Soviet Agricultural Academy. Since the original agreement additional agreements have been signed to establish a trade office in Des Moines and one in Moscow. Further agreements are presently under negotiation.

In October, 1990, Gilley again visited the Soviet Union. This included Moscow where he participated in a joint symposium on "Land reform and the Free Market Economy", Yalta and Kiev.

As you have read and seen on television there are many changes taking place in the Soviet Union. All of us hope that the country's movement toward a free market system is successful because their success eventually will be helpful to everyone in the free world. But it will not be easy. Daily life for the average soviet citizen remains a struggle, and improvements in agricultural productivity will be slow and require major investments, including western technology.

Gilley traveled to Belgium in May to continue a joint research project with Dr. Jan Feyen at the Catholic University of Leuven, Belgium. In addition, we signed a formal exchange agreement between that institution and the College of Agriculture at ISU. As part of this exchange, Ramesh Kanwar will be spending one month in Belgium teaching a drainage course and working on water quality research projects. Gilley also stopped in Leuven for a few days on his return from the Soviet Union in October.

During June, Gilley again traveled to Portugal to work with Dr. Luis Periera at the Technical University of Lisbon on a NATO project on irrigation development. Gilley assists Periera as the technical advisor for the project. They anticipate that Agricultural Engineering faculty here will be cooperating with scientists in Portugal and ISU in the near future.

---

## Honors and Awards

---

### Faculty Honors and Awards

---

**Jim Baker** was named 1990 Engineer of the Year from American Society of Agricultural Engineers, Mid-Central Region.

**Carl Bern and Tom Hoerner** each received a \$1,000 Excellence in Teaching Award from the 1990 Iowa General Assembly.

**Tom Hoerner** was noted for his outstanding presentation in the Agricultural Mechanics Special Interest Group for Central States Seminar in Agricultural Education.

**Richard Smith** was named outstanding agricultural engineering professor by students for 1989-1990.

**Manjit Misra** received a blue ribbon from ASAE for his videotape "Basic operation and adjustments of an oliver gravity-separator".

**Vern Meyer** received two blue ribbons from ASAE in Extension Aids Exhibits competition. The first was for a videotape on managing swine breeding herd facilities and the second for a bulletin on gravity drain gutters for swine buildings.

**Vic Bekkum** received the National Association of Colleges and Teachers of Agriculture (NACTA) Teacher fellow award. Teacher fellows are recognized with a certificate of excellence presented at the annual NACTA conference. Bekkum also received the NACTA John Deere Award. This award is given to one nominee in each of the five geographic regions of NACTA. Each regional award carries a \$500 stipend for the instructor and a \$500 stipend for the instructor's institution. The award recognizes outstanding teachers and programs in power and machinery.

**Dee VanDePol** has received FFA's highest award. Dee, a secretary in the Agricultural Engineering Department, received the Honorary American FFA Degree in ceremonies held on November 9, 1990, at the National FFA Convention. Dee has provided outstanding service to the state and national vocational agriculture/FFA programs. She assists annually in organizing and conducting the Iowa FFA Agricultural Mechanics Contest along with development work with the National FFA Agricultural Mechanics Contest. Congratulations to Dee for many years of exceptional service to the FFA organization.

**Ramesh Kanwar** was elected Chairman-Awards and Recognition of the Iowa Section of the American Society of Agricultural Engineers for 1990-91.

**Tom Greiner** has recently been named a recipient of a University Extension Meritorious Service Award for demonstrating outstanding efforts in program planning and development in residential housing and energy. He also has served as coordinator of the Iowa Radon Project and chairman of the Life Force planning committee.

**Midwest Plan Service** received blue ribbon awards at the June 1990 ASAE meeting for: "Natural Ventilating Systems for Livestock Housing", MWPS-33, "Farm and Home Concrete Handbook", MWPS-35, "Preservative Treated Wood for Farm and Home", AED-30.

### Student Honors and Awards

---

Two Iowa State University student groups won national awards at the summer meeting of the American Society of Agricultural Engineers (ASAE) in Columbus, Ohio on June 26. ISU's *student branch of ASAE* won the 1990 Equipment Manufacturers Institute (EMI) award for student branches with fewer than 35 members. The award is based on branch activities and achievements. ISU's *Agricultural Mechanization Club* was second runner-up in the EMI Trophies Competition for mechanization clubs, also based on activities and achievements. EMI is a trade association for North American agricultural, construction and industrial equipment manufacturers.

**Piyush Singh and Prasanta K. Kalita** received the Paul Taiganides awards for the outstanding graduate students in Agricultural Engineering. Singh's research interests are in the use of image analyzing techniques to quantify macropores and computer simulation of water quality systems. Kalita's research interests are in water table management effects on water quality.

**Don Lamb** received a university research excellence award for his thesis "Moisture determination of single soybean seeds by near-infrared transmittance" under the direction of Charles Hurburgh. Lamb received his master's in Agricultural Engineering in summer 1990.

**Tom Brumm** was named the recipient of a university research excellence award in spring 1990 for his dissertation "Quality and the Processed Value of Soybeans". Brumm's research was done under Charles Hurburgh.

**Daron Head**, placed second in the ASAE Mid-Central Region and fourth in the ASAE National Student Paper Competition with his paper titled "Airflow resistance of bin floor supporting fine material from corn".

---

## Honors and Awards

---

### Student Honors and Awards continued

---

**Steve Roth's** paper "Farm Bill compliance: a case feasibility study" placed first in the ASAE Midcentral Region and seventh in the ASAE National Student Paper Competition.

**Chris Bowersox**, placed eighth in the ASAE National Student Paper Competition with his paper "Ethanol production: A student laboratory exercise."

**Gerald Kinney and Lon Jennings, AE/PM**, received ASAE Student Honor Awards for 1990.

**Kent Stickler**, received the Outstanding Ag Mech Student Award.

### Honors and Awards Received by Alumni

---

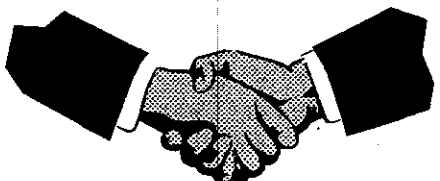
*Award recipients at 1989 ASAE International Meeting:*

**Gary Van Ee** (BS '70, MS '75, PhD '80), agricultural engineer, Michigan State University, East Lansing, was the recipient of the Engineering Concept of the Year Award. The award was given to Van Ee for the "Cross-flow fan crop sprayer" invented by Van Ee and Richard L. Ledebuhr, also of Michigan State.

**Raymond Huhnke** (BS '73, MS '74, PhD '80), extension agricultural engineer and associate professor, Oklahoma State University, Stillwater, was the 1989 recipient of the Nolan Mitchell Young Extension Work Award. Huhnke is recognized for his leadership in developing workable handling and storage alternatives for large round bales.

**Charles Sukup** (BS '76, MS '82), Vice President of Sukup Manufacturing Co., Sheffield, Iowa, was named the 1989 Sunkist Young Designer Award. Sukup is recognized for his engineering designs for a broad range of products manufactured by his company.

**Bill Harriott** (BS '56, MS '63), R & D consultant, Las Cruces, NM, was presented the newly created Encore Award. ASAE Foundation President William E. Splinter presented the special award to Harriott for his "years of extraordinary service in many capacities to the American Society of Agricultural Engineers".



*Congratulations!*

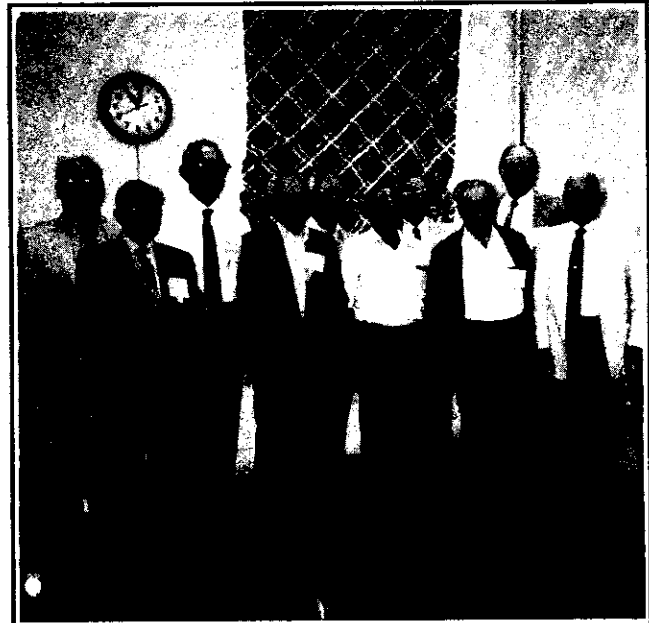
## Awards banquet

The annual spring awards banquet will be held Saturday, February 9, 1991 at the Starlite Village in Ames. The banquet begins with a social at 11:30 AM. Following the banquet Rick Malir, a former National FFA president will speak. Everyone is welcome, if you wish to obtain tickets, please contact Barb Kalsem in the Ag Engineering Department office.

## Alumni Day Correction

---

Last year's Davidson Dispatch had names of only three of the nine members of the Class of 1939 who attended Alumni Day on June 2, 1989. We thank Henry Martin for providing the other names and for sending the following photo to us.



Pictured are: Dean Gunderson, Vernon Moss, Norris Swanson, John Brelsford, Marvin Isvick, Clark Prudhon, Dale Hull, Howard Esbeck, Norton Ives (class of '40), and Henry Martin.

## MWPS Activities

---

MWPS has published *Mechanical Ventilating Systems for Livestock Housing*, MWPS-32, in the past year. The third ventilation book, *Heating, Cooling and Tempering Air for Livestock housing*, MWPS-34, will be published in late 1990.

MWPS is making an effort to market handbooks at some of the larger trade shows. Personnel attended the World Pork Expo and the Farm Progress Show, and will be attending the National Frame Builders Association Convention and Exhibition and the National Rural Builders Show.

## Project Vincent

Project Vincent is named to honor John Vincent Atanasoff, who developed the essential components of the modern digital computer while on the Iowa State College faculty in the late 1930's. In 1990, Michael Crow and Milton Glick were able to persuade the U.S. Congress to allocate \$5 million to I.S.U. to upgrade the university computation facilities. It was decided that the future lay in distributed computing, that is, a user would have his or her own central processing unit (CPU) solely dedicated to individual use. In the past main computing on the I.S.U. campus had largely been conducted through timesharing using mainframes or superminis.

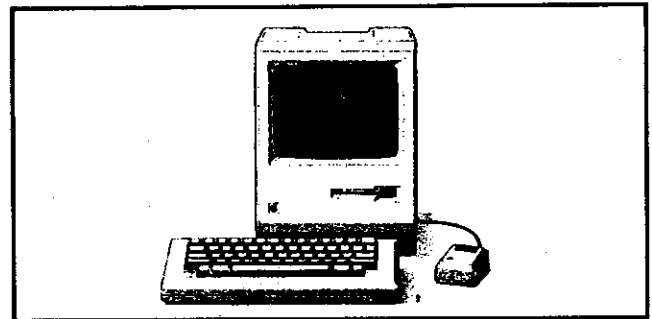
The I.S.U. Computation Center examined several different systems on campuses throughout the country and decided that the model that would best fit the needs of the I.S.U. community should be based on M.I.T.'s Project Athena. The system is based on the UNIX operating system. Campuswide connection is provided by a hierarchy of fiber optic networks. The main network is used by the Computation Center to control access to the system and to distribute universal access software such as the operating system, compilers, graphics packages, and document production software. These packages are stored in a multiplicity of servers located on subnets. This strategy is adopted so that the main net is not slowed down by large numbers of requests for downloading applications packages to individual user's machines.

The computers chosen after submitting bids to several manufacturers were Digital Equipment Corp. DS2100, DS3100, and DS5000 machines. These machines are built around the MIPS Corp. Reduced Instruction Set Computer. The machines increase in capability from the DS2100 to the DS5000. The high end machines are specifically designed for advanced color graphics applications, but all the machines have extensive graphics capability.

Demand for computing facilities is continually increasing in the Agricultural Engineering Department. In early 1990 there were three areas open to undergraduate and graduate students. Two of these areas contained ten or more machines and could be scheduled for formal instruction. The third area contained a mixture of IBM compatible machines and two Apples. This area was available on a first come first served basis. This last area was lost when room 104 was adopted as the Department Head's office. In May 1990, plans were developed to rewire rooms 103, 105 and 107 for Project Vincent and to accommodate the PCs displaced from Rm 104. As of the end of November 1990, there are four x DS2100 and two x DS3100 machines established in room 103. All six machines are equipped with 19 inch 1024 x 864 color monitors. The server is located in room 103. This room also will house the undergraduate monitor, documentation racks, and a laser for the Project Vincent machines. Room 107 will house four IBM compatible PCs, printers (one printer is an HP Laser Jet III), and two Apples.

## Microcomputer Lab Upgraded

The first phase of upgrading the microcomputer lab will be completed this fall with the arrival of 10 Macintosh Classics and network cables. The "Mac Classic" was announced by Apple Computer on Oct. 15. The Classic features 2 meg. of R.A.M., a 40 meg hard drive and a 1.44 meg floppy drive. This upgrade was the result of a commitment by the College of Agriculture, Agriculture Experiment Station and the Department of Agricultural Engineering to continue to provide computer instruction for students in the College of Agriculture. Beginning in fall 1991, a three-credit microcomputer course will be required in the core curriculum in the College of Agriculture. Our department will offer a three-credit applications course and a two-credit computer-aided graphics course.



## NSF Research Experiences for Undergraduates Program

The purpose of the program is to interest university undergraduates in science and engineering and in graduate study by having each student complete a research project under the guidance of a professor. During summer 1990 the following six undergraduate engineering students participated:

**Michael Asefa** (worked with Victor Bekkum), project: Design of semi-closed aquaculture demonstration apparatus for secondary schools.

**Brian Fischer** (worked with Manjit Misra), project: Effects of debearder adjustments on physical properties of oats and crambe.

**Margaret Herzog** (worked with Ramesh Kanwar), project: Comparison of rapid *in-situ* techniques for rapid measurement of saturated hydraulic conductivity of soils.

**Arlyn Wilcox** (worked with Don Erbach), project: Effects of compaction of soil by tractors.

**Scott Steege** (Richard Smith), project: Design of an apparatus to measure bulk modulus of aerated power hydraulic oils.

**Gerald Kinney** (worked with Don Erbach), project: Effects of tractor wheel configuration on soil strain in the horizontal and vertical profiles.

This fall, four students have begun working part-time for two semesters. This National Science Foundation project is funded through next year.

## Undergraduate Scholarships

The department is excited to report that 31 scholarships have been awarded to undergraduate students this academic year. Twenty-six scholarships were awarded at the department level, four were from the College of Engineering and one was a National Food Engineering Scholarship sponsored by the Dairy and Food Industry Supply Association. This is the first year of the Ag Mech Scholarship initiated by Kent Stickler, spring 1990 Ag Mech graduate. We appreciate Kent's support and thoughtfulness in establishing this fund. It is our hope this new scholarship fund will continue to gain alumni support.

Below is a listing of undergraduate scholarship recipients for the 1990-91 academic year:

RECIPIENT	YEAR	HOME TOWN	SCHOLARSHIP
Douglas Allen	FR, AE	Red Oak, IA	Wessman Memorial
Michael Asefa	SO, AE	Ames, IA	Wessman Memorial
Nathan Adkins	FR, AE	Donnellson, IA	Wessman Memorial
Neal Biekert	SR, AM	Nashua, IA	Iowa Section ASAE
Mark Borman	FR, AE	Bode, IA	Wessman Memorial
Jeremy Bowden	FR, AgM	Winthrop, IA	Thomas A. Hoerner Freshman
Brian Fischer	SR, AE	Manchester, IA	Charity & National Food Engineering
Scott Flynn	SO, AE	Keota, IA	Wessman Memorial
Timothy Handorf	FR, AE	Gladbrook, IA	Wessman Memorial
Margaret Herzog	SR, AE	Cedar Rapids, IA	J.B. Davidson
Lon Jennings	SR, AE	Peosta, IA	Iowa Section ASAE
Phillip Jennings	JR, AgM	Marion, IA	Ag Mech
Gerald Kinney	SR, AE	Bloomfield, IA	George W. Catt
Amy Mangold	FR, AE	Ames, IA	Wessman Memorial
Edward Mosher	FR, AE	Prophetstown, IL	Wessman Memorial
Mark Oberreuter	FR, AE	Danbury, IA	Wessman Memorial
Lance Olson	FR, AE	Clinton, IA	Wessman Memorial
Celia Priebe	FR, AE	Brandon, IA	Wessman Memorial
John Brian Priest	SR, AE	Diagonal, IA	Iowa Section ASAE
Daryl Rober	SO, AE	Dorchester, IA	Wessman Memorial and Herbert James
Steven Rodgers	JR, AE	Winfield, IA	Wessman Memorial
Darin Roth	SR, AE	Wayland, IA	Hobart Beresford
Jim Ryken	FR, AE	Sharon, IA	Wessman Memorial
Stephen Siegel	JR, AE	Bethesda, MD	Wessman Memorial
Vincent Steenhoek	SO, AgM	Mingo, IA	Wessman Memorial
Todd Steigerwaldt	FR, AE	Delmar, IA	Wessman Memorial
Jeffry VanPolen	SR, AE	Eddyville, IA	J.B. Davidson
Arlyn Wilcox	JR, AE	Cleghorn, IA	Wessman Memorial
Brian Wuebker	JR, AE	Rockwell City, IA	L.G. Keeney

Each year, the Iowa Section of the ASAE has a steak fry for scholarships. This year, it was in the Davidson Hall courtyard on Oct. 4. More than 120 attended. The Iowa Section voted to again furnish two \$500 scholarships to Iowa State University students with the proceeds from the steak fry. Many thanks to all who helped make this a successful event.

## For Your Information

**Ramesh Kanwar** has initiated a joint research and faculty exchange program between the Institute for Agro-Ecology, Zagreb, Yugoslavia, and Iowa State University.

**Tom Greiner** reports that the Iowa Association for Energy Efficiency (IAEE) annual conference "Iowa's Pursuit for Energy Efficiency" was well attended. More than 280 persons attended the Oct. 16-17 con-

ference in Des Moines. As IAEE state president, Greiner presided over the general sessions. Several Iowa State University members presented papers, including Carl Bern and Larry VanFossen, who discussed the heat exchanger work they are conducting for drying grain. If you are interested in energy and the IAEE please contact Greiner for details.



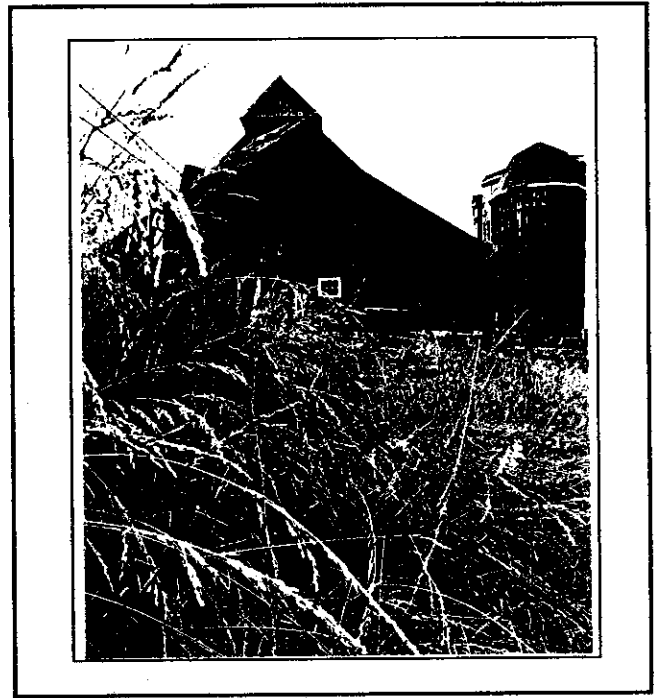
## Thoughts and Views

*Continued from page 1.*

Employment opportunities for our graduates remain strong, with the number of offers and salaries very competitive across all departments in engineering. We simply do not have enough students! We must continue to work on recruiting--selling our programs to the young people of Iowa. Yet, that is not enough. We must attract a different group of students; those of urban Iowa. We must also increase the number of women in our programs. We are striving to achieve both of these goals through increased recruiting efforts and the addition of programs that we think will attract students.

We sincerely hope that these two recommendations, together with an increased effort in recruiting will increase our student enrollment. We certainly need to have your continued support to help sell our program.

We would welcome your comments and observations on each of these issues and others as well.



## Alumni News . . . .

**Michael Potter**, BSAE '86, MS '89, is a design engineer at DAI Technologies in Lisle, IL.

**Carl Orr**, BSAE '88, manages the operations of a production unit for Procter & Gamble's pharmaceutical manufacturing business in Greenville, SC.

**Gaylen Kromminga**, BSAE '88, is working as a design engineer at DMI in Goodfield, IL.

**Glen Turner**, BSAE '87, is a sales representative for Wilbur-Ellis, Brayton Chemicals Div. in Clinton, IL.

**Kent Gibbons**, AGM '88, is a production supervisor for Cargill in Reserve, LA.

**Andrew Beaver**, BSAE '86, is in the special projects section for the director, NOAA Corps Operations in Rockville, MD. He was the recipient of the American Society of Military Engineers KARO.

**Arthur R. Kalmes**, BSAE '86, is working for Barr Engineering Co. He has been with the company for two years in Minneapolis, MN as an ag civil engineer.

**Randy Tinker**, BSAE '87, is working as a project engineer for James M. Montgomery, Consulting Engineers, Inc. in Des Moines. He is also a member of the Board of Governors of the Alpha Nu Chapter of Phi Kappa Tau Fraternity.

**Forrest Aldrich**, BSAE '87 is a civil design engineer for Veenstra & Kimm Engineers and Planners in Des Moines. He is married to Kathleen Eldridge who graduated from ISU in 1988.

**Jeffrey Klahs**, BSAE '86, is a project engineer at Quaker Oats Co. in Cedar Rapids. He plans and implements food processing and packaging projects.

**Joe Meyer**, BSAE '83, is a senior mechanical engineer for Berkley & Co. in Spirit Lake.

**Ahmad Saleh Babeir**, PhD '84, is a vice dean at King Saud University, College of Agriculture in Riyadh, Saudia Arabia.

**Joe Harrington** BSAE '82, is a sales engineer for Petrolite Corp. He also is active in the Enid chapter

**Joe Harrington**, BSAE '82, is a sales engineer for Petrolite Corp. He also is active in the Enid chapter of the American Petroleum Institute (API). He and his wife Judy have a daughter Justine.

**David Smith**, MS '78, PhD '81, is a principal scientific officer for AFRC Institute of Engineering Research in Silsoe Bedford, UK. He has done research on three- and two-phase mixtures. He is a chartered engineer (U.K. equivalent of PE).

**Bradley Rastall**, AGM '84, is a mech. engineering tech for the United States Bureau of Reclamation in Mills, WY.

**Rolando Flores**, MS '81, is an assistant professor at Kansas State University - Food and Feed Grains Institute. He received his PhD in 1989 from Kansas State in Manhattan, KS where he now lives.

**Kenneth Wilson**, AGM '82, is working as a special projects grower with Monterey Mushrooms Inc, Santa Cruz, CA.

**Abu Kasim Bin Ali**, BSAE '79 is a research officer for the Malaysian Agricultural Research and Development Institute. He is married with two children.

**R. Jeffrey Chew**, Ag Mech. '82 is an area manager with the General Motors Corp., Chevrolet Motors Division in Warren, MI. He and his wife Sheryl and their two children, Ashley and Amanda live in Mt. Clemens, MI.

**Phillip Weiss**, AGM '85, is a field supervisor for Montgomery Ward in Livonia, MI. He and his wife, Christine, live in Novi, MI.

**Jim Maier**, AGM '81, is an easyorder manger for Avery Label in Flowery Branch, GA. He is also an executive board member for the American Heart Association, Hall County, and production manager for an offset Printing Department. He and his wife Jennifer live in Gainesville, GA.

## Alumni News . . . .

**Fred McNamee**, AGM '80, is a district sales manager for Dekalb-Pfizer Genetics in Dekalb, IL.

**Jonathan Brown**, AGM '82, is an attorney in Sioux Falls for Davenport, Evans, Hurwitz & Smith. He graduated from University of Iowa College of Law, J.D. '86.

**John Skerritt**, AGM '80, is a district conservationist for USDA - Soil Conservation Service in Estherville.

**Greg Kammarmeyer**, BSAE '79, is a manufacturing engineer for Kraft General Foods in Buena Park, CA.

**Rodger Menn**, AGM '79 is the owner of Agri-Business, Mid-Continent Ent. Ltd in Taylorville, IL. He runs an active wholesale distribution company for ag equipment in seven states.

**Raymond Wainwright**, MS '76, is an adviser for the Overseas Development Administration. His work is with the British Government in Silsoe, Bedford, England.

**Ron Haden**, BSAE '74, is a county engineer for Calhoun County. He and his wife, Cheryl, have three children, Melissa, Laura and Matthew.

**A. L. Utesch**, BSAE '60, is the president of CSM Corp. in Argyle, TX.

**Loren Zabel**, '62, is a major accounts manager for Caterpillar Inc.-Engine Division in Mossville, IL.

**Roger Dittmer**, BSAE '75, is an engineering project manager for FMC, naval systems division in Minneapolis, MN. He and his wife Rosemary and their three children live in Coon Rapids, MN.

**William Oates**, MS '41, has retired and now operates Sunset Arabians, raising and training Arabian horses in Diboll, Texas.

**Arnold B. Skromme**, BSAE '41, just had his first book, "The 7-Ability Plan", published. The book details work of 16 inventors. He lives in Moline, IL.

**Charles Ball**, MS '47, retired in 1989 as executive vice president of Texas Cattle Feeders Association. He was selected by BEEF Magazine as one of "25 who made a difference" in the beef industry in the last 25 years.

**David Babler**, AGM '76, is a crops manager for the Three Rivers FS Co. He and his wife Karen and two sons, Andrew and Jason, live in Dubque.

**David Nelson**, BSAE '77, is manager of research administration for CIBA-GEIGY Seed Division in Greensboro, N.C.

**Maury Salz**, BSAE '79, is an associate project engineer for J.I. Case in Hinsdale, IL.

**Brian Hunter**, is a Project Manager for the U.S. Army Corps of Engineers in Omaha Nebraska.

**Ed Spiess**, BSAE '63, owns Dexton Enterprises in Rock Island, IL. His two children attend ISU. Ben is studying horticulture, and Carolyn is in business.

**M. Neil Goodman**, BSAE '63, is a director of technical services for Texas Gas Transmission Corp. in Owensboro, KY. He is member of American Gas Association, Pipeline Research Committee, and Compressor Committee.

**Ceferino Folloso**, MS '62, is the cabinet secretary for the Department of Science & Technology (Republic of the Philippines). In 1988, he was named

"most outstanding professional agricultural engineer" by the Philippine Federation of Professional Association.

**Robert Davis**, BSAE '57, is a high school and community college math teacher in Rohnert Park, CA. He is also mayor of the city of Cotati.

**Kenneth Fineran**, BSAE '55, is an associate pastor for the First United Methodist Church in Boone.

**Paul Rosenberger**, BSAE '52, is a staff engineer for Caterpillar, Inc. He also is active in community theater, Sertoma, and the SAE Coalition of disabled citizens of IL.

**David Brueck**, BSAE '49, is area management specialist for the Iowa State University Extension Office in Storm Lake.

**Jay Porterfield**, BSAE '47, MS '50 is emeritus professor of Agricultural Engineering at Oklahoma State University. He now is retired and serving on community service boards.

**Keith Minard**, BSAE '48, retired after 25 years of service as a product test and reliability manager for John Deere in Waterloo.

**Jim Noonan**, BSAE '85, is a project engineer at Little Giant Crane in Des Moines. He is working on a second BS in Mechanical Engineering.

**William Carter**, BSAE '29, retired from Louisiana State University. He has a small shop, and collects toy steam engines.

**Volney Smith**, BSAE '49, retired as assistant state conservation engineer, SCS, Des Moines. He does volunteer work for the city of West Des Moines.

**Robert Wemer**, BSAE '76, MSAE '78, M Prof Ag '88, is a self-employed livestock and grain farmer. He is also on the Board of Directors-Cedar Valley Farm Business Association.

**Gustav Bliesner**, BSAE '39, is retired, living in Newberg, OR. He developed the "three-two" professional engineering transfer program at George Fox College with Portland University. He also was a faculty associate in the physics department of Linfield College, McMinnville, OR, and was president of Chehalem Valley Heritage, Inc.

**Clark Rosenberger**, BSAE '52, is manager of quality check and Administration for the Carolina Power and Light Co. in Raleigh, NC. He is a member of the Raleigh Engineers Club, and ASQC.

**Paul Masters**, BSAE '41, retired from the American Bridge Division of the United States Steel Corporation. He has received the Joseph F. Minnottee Service Award, AWS District Meritorious Certificate Award and served with International Executive Service Corps.

**Chandrashankar Pandya**, MS '49 has retired. He is active in an honorary capacity in several organizations. He lives in Gujarat, India.

**John Palmquist**, MS '49 retired in 1987, but still farms 41 acres of alfalfa and oats. He lives in Saskatchewan, Canada. He has two daughters, Deborah and Rebecca, who were both born in LaPaz, Bolivia.

**C.B. Richey**, BSAE '33, has published an autobiography titled "Fifty Years of Engineering Farm Equipment". He lives in West Lafayette, IN.

## Keep Us Current

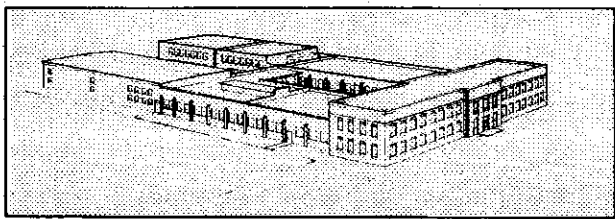
Please clip out and return, so we can keep updated on alumni happenings.

<b>Where you live:</b>		
Name:	Year graduated	
Home address:	Degree received	
City	State or Country	Zip
<b>What you do:</b>		
Bussiness title / profession	Phone	
Company / institution		
Division / address		
City	State or Country	Zip
<b>News about you:</b> (community service, board memberships, professional honors, carreer activities, family information)		
<b>Return to:</b> James R. Gilley Agricultural Engineering Department Iowa State University Ames, Iowa 50011		
		<i>Thank You!</i>



*Season Greetings!*

*From:  
The Faculty and Staff  
at Davidson Hall*



**Agricultural Engineering Department of  
Iowa State University**