

Approved: 2/9/94  
Date

## MINUTES OF THE HOUSE COMMITTEE ON ECONOMIC DEVELOPMENT.

The meeting was called to order by Chairperson Bob Mead at 3:30 p.m.. on February 2, 1994 in Room 423-S of the Capitol.

All members were present except:

Representative George Dean, excused  
Representative Joel Rutledge, excused

Committee staff present: Lynne Holt, Legislative Research Department  
Bob Nugent, Revisor of Statutes  
Ellie Luthye, Committee Secretary

Conferees appearing before the committee:

Bill Hollenbeck, Pittsburg State University  
Dr. Vic Sullivan, Dean, School of Technology, Pittsburg State University

Others attending: See attached list

Chairman Mead called upon Bill Hollenbeck, Pittsburg State University, to speak to the committee. Mr. Hollenbeck showed a video entitled Technology - Your Opportunity For Success which gave an overview of the programs offered at Pittsburg State University and distributed a chart which showed the departments and degrees that are included in the School of Technology and Applied Science at the university. (Attachment 1)

Mr. Hollenbeck introduced Dr. Vic Sullivan and presented a brief background, stating Dr. Sullivan had been at Pittsburg State University for 30 years.

Dr. Sullivan stated not only are the technology majors offered at Pittsburg State unique in the nation, the partnership of the university with industry in Kansas, the United States and the world is unusual. He gave illustrations of the uniqueness of the School of Technology. (Attachment 2) He spoke in detail of the operation of the International Standards Organization (ISO) Secretariat. He explained the ISO is made up of national standards organizations from more than 90 countries around the world and their mission is to promote the development of standardization and related activities in the world with a view to facilitating the international exchange of goods and services. The ISO/TC 10/SC 5 at Pittsburg State is charged with developing international standards for the field of Geometric Dimensioning and Tolerancing and was moved to Pittsburg State from Switzerland. (Attachment 3)

He distributed a drawing of the new Technology Center which he stated hopefully will be completed in time for classes in the fall of 1996. Dr. Sullivan said consolidating all of PSU's highly regarded technology programs in one modern facility had been a dream of his and others for many years and finally technology programs and instructors, now scattered across campus in at least four buildings, will be united under one roof. (Attachment 4)

Following the presentation by Dr. Sullivan, and questions from the committee, Chairman Mead adjourned the meeting at 4:35 p.m.

The next meeting is scheduled for February 9, 1994.

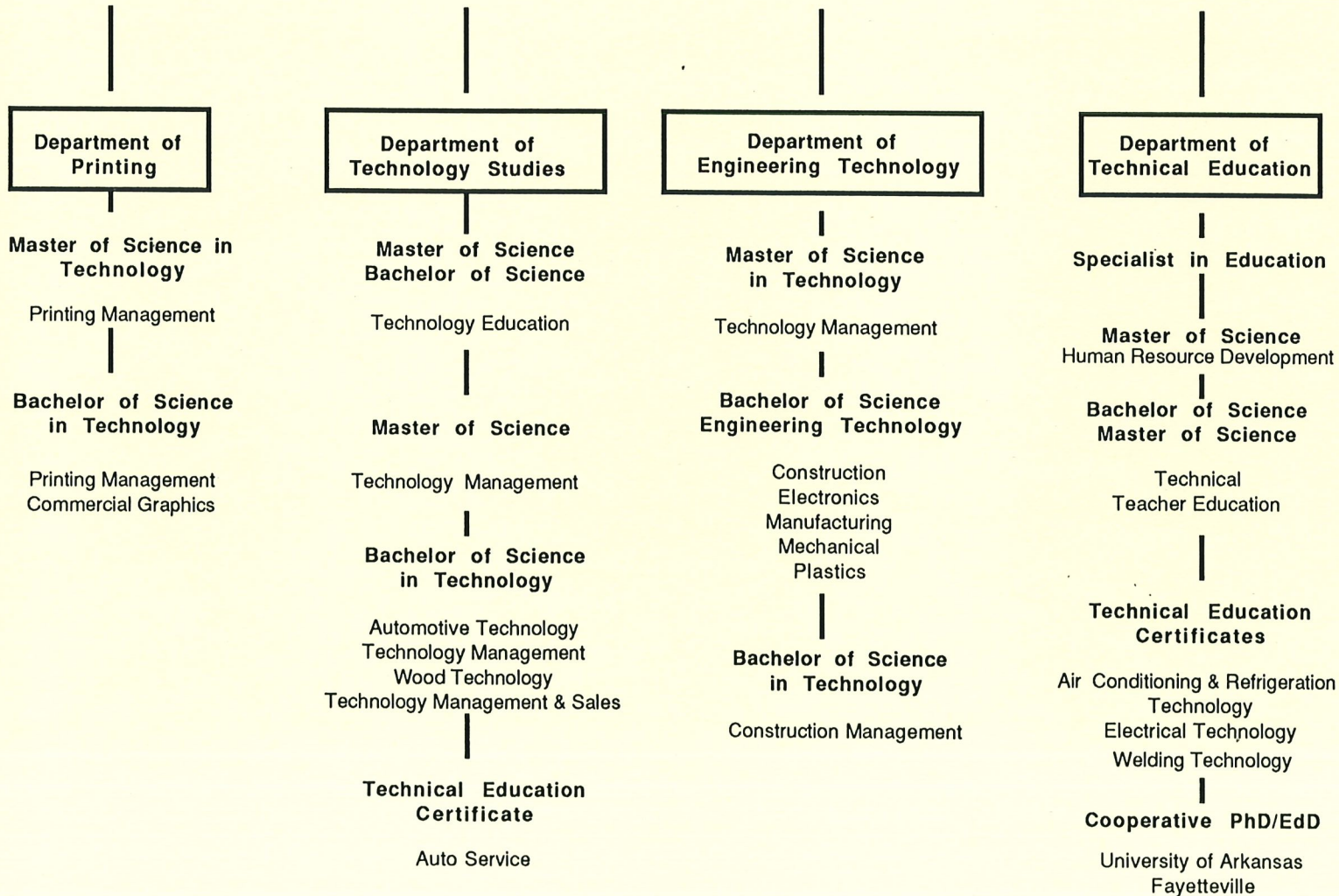
## GUEST LIST

COMMITTEE: HOUSE ECONOMIC DEVELOPMENT DATE: February 2, 1994

[illegible]

**PITTSBURG STATE UNIVERSITY  
SCHOOL OF TECHNOLOGY AND APPLIED SCIENCE**

Total Faculty = 59    Total Students = 1224    Faculty/Student Ratio = 1:20



*Economic Development  
February 2, 1994  
Attachment 1*



## The Connection

### Pittsburg State University School of Technology & Applied Science and Industry

Not only are the technology majors offered at Pittsburg State unique in the nation, the synergism of the university with industry in Kansas, the U.S. and the world is unusual.

The academic majors in Technology Education and Vocational Technical Education are recognized around the world and are considered as equivalent to other well known universities with technology such as Purdue, Illinois State, the University of Missouri, the University of Wisconsin-Stout and Ferris State University, Michigan in the U.S. and such international universities as Taiwan Normal University, the University of Bath and Nottingham Polytechnic in England, and King Mongkut University, Bangkok, Thailand.

To illustrate the uniqueness of the School of Technology at Pittsburg State, let us play the Jeopardy Game, the answers are:

1. A small Kansas university that operates the International Standards Organization (ISO) Secretariat for engineering drawing dimensioning and tolerancing standards known as TC-10, SC-5.
2. A university that is one of only four in the U.S. that has automotive technology majors ranging from the AAS technician major through service and manufacturing management BS degrees.
3. One of only five universities with recognized high quality wood technology majors--the one that is recognized as the #1 wood technology major by three of the four primary professional associations in wood product manufacturing.
4. The only university with a plastics engineering technology major accredited by the Technology Accreditation Committee of the Association Board for Engineering and Technology (TAC-ABET).
5. The technology school that presented over \$80,000 in scholarships and awards at the 1993 annual award banquet, almost all sponsored by industry and industrial associations including: The American Foundrymen's Society and the Foundry Educational Foundation, the Society of Plastics Engineers, the American Society of Mechanical Engineers, the Society of Automotive Engineers, Associated General Contractors, the Instrument Society of America, the American Welding Society and the American Graphic Arts Technical Foundation.
6. The school that was used as a model for the new plastics major at Purdue University upon the recommendation of the Indiana chapter of the Society of Plastics Industries.

*Economic Development  
February 2, 1994  
Attachment 2*

The answer is, of course, 'What is Pittsburg State University'?

A few stories will illustrate what these six items can mean to the long term economic health of Southeast Kansas, the State of Kansas, the Midwest and indeed the U.S.

Three items that illustrate the long term effect of operating the ISO TC-10, SC-5 Secretariat:

In November a company at the State Department of Commerce Tour stated they had joined the tour because if a university in the state had the long term vision to be involved with ISO, it was evidence that there was a progressive supportive atmosphere for growth.

Another was only remotely related to the TC-10, SC-5 emphasis of our Secretariat. An electronic product manufacturer in the Kansas City area of Kansas needed information on how to determine if a new product would meet ISO standards and thus be salable in Europe. Professor Nickolaisen was called and although he did not know the answer was able to refer the company to the chairman of the ISO Standard in question, a Vice President of Siemens of Germany whom he had met in the process of his international duties.

When Professor Nickolaisen needed to be at meetings in Stockholm, Sweden in the Fall of 1993 for an ISO meeting, he was concerned about the four class sessions he would miss. In a conversation with a member of the international committee from TRIKON Corp. of Auburn Hills, Michigan, he mentioned his concern. The next day the CEO of TRIKON called to say he would send his director of training, Mr. Curt Larson, to teach at no cost to the university. TRIKON is the world leader in the applications of Geometric Dimensioning and Tolerancing (GD&T). Their most recent success has been the dimensional management of the new Chrysler LH, the Ram pickup and the new Neon. Mr. Larson made five trips to Kansas in the Fall of 1993 to teach for us. Because we had one of the handful of experts available in the world, we asked if he would be available to meet with selected industries. He not only agreed but on two different trips stayed over an extra day meeting with the following companies: Boeing, Cessna, and Beech of Wichita, Didd Corp. of Emporia, Dixon Industries of Coffeyville and Hix Corporation and Superior Industries of Pittsburg. A contract with Dixon Industries is currently being negotiated through PSU's MAMTC office.

On Friday, January 28, 1994 Dr. Sullivan met with the City of Pittsburg and a new start up company who has developed a radical high tech welding process to make advanced honeycomb material. Kansas was included in the search for a manufacturing site because of Pittsburg State University's reputation is automotive technology, welding and the manufacturing location which is within reach of aircraft manufacturers in both Wichita and St. Louis. "The hook is set, now we need to locate financing to finally land the fish!"

Why is the small university so "connected"? The primary reason is the commitment of the faculty to the students and the fact that we are an applied school. We believe that industrial experience is as important as academic preparation--it requires both! The faculty have developed close ties to the industries domestic and international that employ our graduates and to the professional associations relevant to those industries. Three of my faculty have been "through the chairs" of the regional SME chapter. Similar involvement is true of ISA, AFS, AGC and SPE.

along with their own experience and prepared a design that they believe reflects the unique and varied programs to be housed in the Kansas Technology Center. Since that first design, a number of interior features have changed and more interior changes are still possible, but the basic plan has stayed fairly constant.

The biggest challenge to the architects and the most striking feature of the building they designed, Frey said, is the structure's ability to adapt to change.

Features throughout the building are designed with flexibility in mind. The architects worked to eliminate load-bearing walls wherever possible, Frey said, creating large cores of lab space with walls that can be eliminated when the need arises. In addition, permanent structures, such as elevators and stairs, are located so that they do not impede flexibility. Computer, electrical and other services are being designed with the anticipation that change is not only possible, but likely.

It is difficult, Frey admitted, to design a structure made of materials as permanent as concrete and steel so that it can change and adapt to technologies still unimagined. He is obviously excited about his firm's plan for meeting those challenges, however.

Frey said the Kansas Technology Center will incorporate both classic and modern elements. It will be constructed around a "traditional collegiate square," Frey said. At the same time, the exterior will use pre-cast concrete, glass and aluminum in ways that help communicate the building's purpose as a center of modern high technology.

#### OYA (from pg. 1)

programs and two graduate programs. He supervises 17 faculty and staff. Iley is also responsible for coordinating the Technology Education program. He received a bachelor of science degree in industrial arts education in 1975, and a master of science degree in industrial arts in 1976, both from Pittsburg State. He lives in Pittsburg.

The 1993 Outstanding Young Alumni were special guests at the "Crimson and Gold Night" on Friday before Homecoming. They also rode in the Homecoming parade on Saturday and were honored during a pregame show just prior to kick-off.

## Nickolaisen Heads Up International Secretariat

Bob Nickolaisen has a job title that defies an easy explanation. Nickolaisen, a member of the PSU School of Technology faculty since 1988, is the secretary for the ISO/TC 10/SC 5 Secretariat at PSU. That title seems to confound almost everyone except Nickolaisen's fellow technology faculty and a select group of persons in business and industry.

The ISO/TC 10/SC 5 may not be well known, but its work can affect a wide range of technology. The ISO, the International Organization for Standardization, is made up of national standards organizations from more than 90 countries around the world. The mission of the ISO is to promote the development of standardization and related activities in the world with a view to facilitating the international exchange of goods and services. The ISO strives to develop cooperation in intellectual, scientific, technological and economic activity. Specifically, the ISO/TC 10/SC 5 at Pittsburg State is charged with developing international standards for the field of Geometric Dimensioning and Tolerancing. Other secretariats around the world focus on areas such as metrology, quality systems, etc.

International standards make it easier and more economical for manufacturers to sell their products in foreign markets. These standards serve as the technical "language" for trade, Nickolaisen said.

In the 18 months since Nickolaisen was named secretary and the ISO/TC 10/SC 5 Secretariat moved from Switzerland to Pittsburg State, Nickolaisen has been busy. He has attended meetings in various locations across the U.S., in Europe and in China and he has made valuable contacts around the globe.

Those contacts have already paid off for some Kansas manufacturers. For example, when one major manufacturer needed information about an inspection standard that explained how to measure screw threads, Nickolaisen was able to fax the information to them within minutes, helping to save the manufacturer a full month's shipment of its product.

Another time, when a Kansas City electronics manufacturer needed information on a specialized electrical standard, Nickolaisen was able to put him in touch with a technical expert at Siemens in Berlin. The company's problem was resolved.

Having the Secretariat at PSU also gives the university recognition, Nickolaisen said. "My ISO Secretariat card is a PSU business card and PSU is recognized as a technical center."

Being involved at the ground level in the development of international standards is also valuable for the university, Nickolaisen said, because it gives PSU a pipeline for technical information.

"Not only can I bring information back," Nickolaisen said, "We can also call on technical experts world-wide for information."

One of those experts, Curt Larson, a vice president with TRIKON Corporation in Detroit, actually volunteered to teach Nickolaisen's geometric dimensioning and tolerancing class for a short time while Nickolaisen was in meetings overseas. TRIKON is a dimensional management firm that serves a wide variety of small and large corporations including General Motors and Chrysler. It was a great opportunity for students to have access to Larson, Nickolaisen said.

Dr. Vic Sullivan, dean of the PSU School of Technology and Applied Science, and Nickolaisen took advantage of Larson's presence in southeast Kansas and arranged meetings with large and small manufacturers both in the immediate area and in Wichita. Those meetings may result in some interesting partnerships, Nickolaisen said.

The move from full-time faculty to secretary of an international standards office has been a big career change, Nickolaisen said. "But there is a certain amount of excitement to being at the forefront of this kind of change."



Economic Development  
February 2, 1994  
Attachment 3

## New Name Reflects Center's Purpose

The Center for Technology Transfer got a new name, some new personnel and additional funding this year, according to Dale Lemons, the new director of the Business and Technology Institute (BTI) at PSU. The changes, Lemons said, help the organization to be better focused on what it does best, which is product design, redesign and production techniques.

The CTT, one of eight agencies united under the umbrella of the Business and Technology Institute, had been without a director for nearly a year, Lemons said, and it became apparent to the Kansas Technology Enterprise Corporation (KTEC) that it might not be in the best interest to fill that position.

Instead, Lemons assumed direct control of the organization, the name was changed, technical specialists were added to the staff and KTEC pumped an additional \$100,000 into the budget. Of the new specialists, one is to be a specialist in design who will deal primarily with product design. The other, a specialist in plastics, will supervise a new plastics testing laboratory at PSU.

"This allows us to better define what we are and what we are doing," Lemons said.

The new plastics testing laboratory is possible because of matching funding from KTEC and MAMTEC (the Mid-America Manufacturing Technology Center). That lab will eventually support a major gift of plastics production equipment from Mitsubishi of Japan, Lemons said.

"It is important for us to upgrade that area of technology," Lemons said, "This is an area where we have had a significant impact."

Lemons said the specialists allow the Center for Design Development and Production to give full attention to some critical areas and "provide good linkage between the university and industry."

Lemons said that one of the major tasks ahead for the CDDP and all of the units within the Business and Technology Institute is making businesses and industries in the region aware of the many services available to them at PSU.

"We need to market the services that are available to small and medium sized companies and would-be companies," Lemons said.

The eight units within BTI and their functions are:

**The Center for Design Development and Production** (formerly the Center for Technology Transfer) -- This office provides assistance to Kansas industries in product design, prototyping, development and production technologies.

**Mid-America Manufacturing Technology Center** -- This office serves more than 400 manufacturers in 14 counties. The mission of the agency is to enhance the competitive position of small and medium-sized manufacturers in Kansas by transferring them to advanced manufacturing technology.

**Higher Education Alliance Team** -- This is a consortium of education leaders representing the community colleges of southeast Kansas and Pittsburg State University.

**International Standards Secretariat (ISO)** -- This is the international administrative center for the ISO subcommittee responsible for developing, reviewing and revising international standards in the field of dimensioning and tolerancing.

**Kansas Electric Utilities Research Program** -- This is a mobile field testing lab for capacitor voltage transformers in the electric utilities industry.

**Small Business Development Center** -- This is a regional center of the Kansas SBDC that offers counseling for specific problems in management, accounting, production, marketing and financing of existing small businesses in 10 southeast Kansas counties.

**Mid-America Certified Development Company** -- This provides packaging and servicing of SBA loans.

**Kansas Department of Commerce and Housing** -- This office provides outreach services for all areas of the Division of Existing Industry Development and Department of Commerce and Housing. Its activities focus on the establishment and expansion of small and existing businesses.

## Company Donates Computer Hardware/Software

The DataMyte Division of Allen-Bradley, a Rockwell International company, has given the PSU School of Technology and Applied Science two computer systems and related software. The systems are to be used in teaching and demonstrating data acquisition and statistical process control analysis.

DataMyte also gave the university permission to copy any of the reference and training materials for use by students or clients. DataMyte estimated the sales value of the gift at \$16,366.

## SME Awards \$27,245 Grant to PSU The Society of Manufacturing

Engineers (SME) announced this summer a grant to PSU's School of Technology of \$27,245. The grant comes from SME's Manufacturing Engineering Education Foundation.

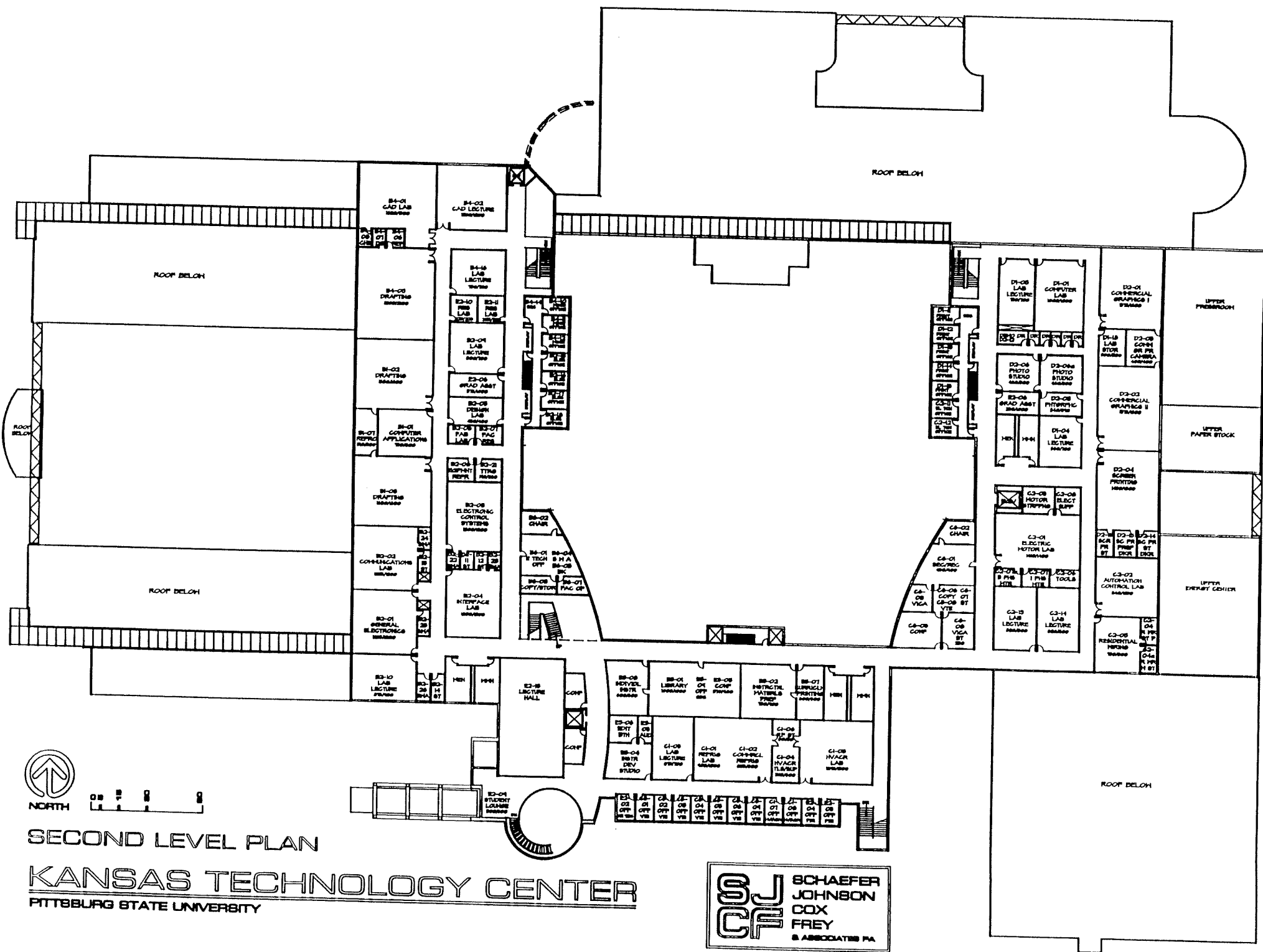
Specifically, the grant provides \$5,000 for the purchase of one Palmer Continuous Mixer to be used in the metalcasting laboratory (partially funded by the Clyde Sluhan/Master Chemical Company Fund), \$7,995 for one Autodesk DesignExpert software gift (sponsored by Autodesk, Inc.) and \$12,000 for one IQS ISO 9000 Software gift for the Manufacturing Engineering Technology Program. (sponsored by IQS, Inc. The grant also includes \$1,000 for faculty development and \$1,250 for curriculum development.

### Technology Report

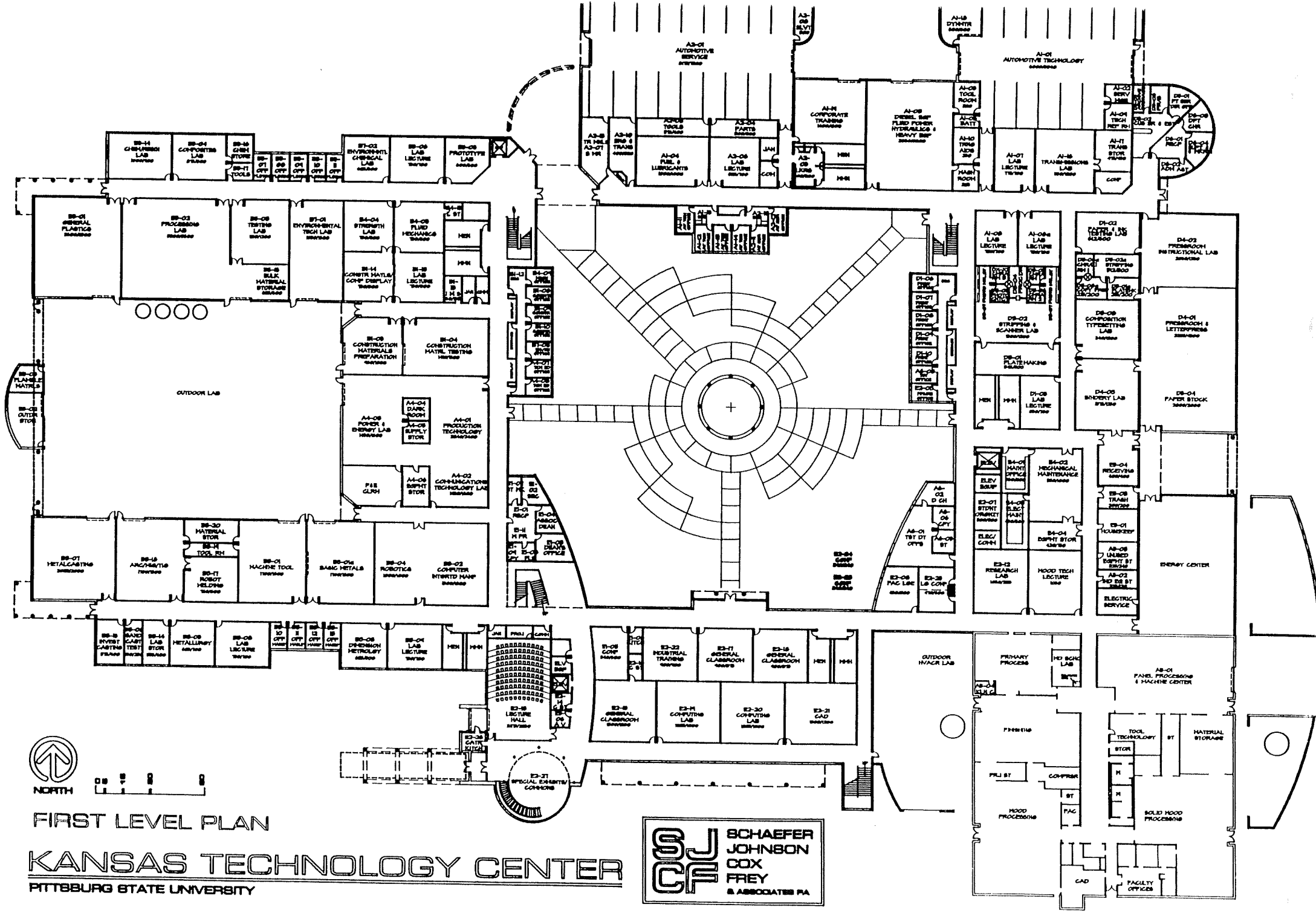
Victor Sullivan, Editor  
Ron Womble, Managing Editor  
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**SJ** SCHAEFER  
**CF** JOHNSON  
 COX  
 FREY  
 & ASSOCIATES PA



FIRST LEVEL PLAN

**KANSAS TECHNOLOGY CENTER**  
PITTSBURG STATE UNIVERSITY

**SJ** SCHAEFER  
**CF** JOHNSON  
COX  
FREY  
& ASSOCIATES P.A.

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