

### Faculty Research Interests, continued

**Austin Melton**, Assistant Professor.  
Major Interests: Denotational semantics, software engineering, programming languages.

**Masaaki Mizuno**, Assistant Professor.  
Major Interests: Distributed systems (concurrency control and recovery, mutual exclusion) and computer security.

**Kaliappa Ravindran**, Assistant Professor.  
Major Interests: Distributed systems architecture, distributed programming languages and high speed networks.

**David A. Schmidt**, Assistant Professor.  
Major Interests: Denotational semantics, applications programming, natural deduction theorem proving.

**Elizabeth A. Unger**, Professor. Major Interests: Database systems, programming languages, computer science instruction, concurrency, office automation systems.

**Maarten van Swaay**, Associate Professor.  
Major Interests: Computer architecture, micro-processors, instrumentation.

**Virgil E. Wallentine**, Professor and Head.  
Major Interests: Distributed programming systems, distributed discrete event simulation, operating systems, and knowledge-based distributed debugging systems.

**Maria Zamfir**, Assistant Professor.  
Major Interests: Formal methods of concurrency, artificial intelligence, concurrent programming languages.

### Visiting Scholars:

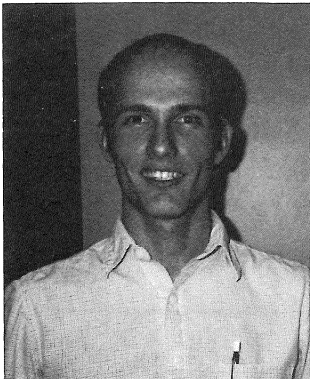
**Lars Bo Neilsen**, University of Aalborg, Denmark, visited Dec. 1988-June 1989 to continue his PhD studies in implementation of programming languages.

**Pascal Fradet**, University of Rennes, France, visiting Feb. 1989-June 1990 for post-doctoral research in functional programming languages.

**Karoline Malmkjær**, University of Copenhagen, Denmark, visiting Sept. 1989-June 1990 to initiate her PhD studies in partial evaluation theory. Funded by Fulbright Scholarship.

**Olivier Danvy**, University of Paris, France, visiting Mar. 1990-June 1990 to lecture and continue his research on partial evaluation theory.

## Graduate Student Profile: Mitchell Neilsen



Mitch is a native Nebraskan and lived in the western part of the state in Sutherland and Paxton. He received his undergraduate degree from Kearney State College in Nebraska in 1982, majoring in mathematics. After college, he taught

mathematics at Smith Center High School in western Kansas and also taught adult education computer courses at Central Community College and Cloud County Community College.

Mitch came to Kansas State to pursue a MS in mathematics, completing that degree in 1988. Mitch has a strong interest in computer science and became acquainted with several of our faculty members, so he decided to come to our Department to work on a MS in computer science and to start work in a PhD in computer science. He says

that some of the major reasons he selected the Department are the faculty interest in the success of the students and the varied research interests in the Department. He is well along with his computer science MS and should finish late this year. His MS work is in the area of distributed mutual exclusion, concurrency, and recovery. His major professor is Dr. Masaaki Mizuno and they have already submitted a paper as a result of their joint research. When Mitch finishes his PhD, he plans to continue to do research and teach at a university or a large college.

Since coming to the Department, Mitch feels that one of our strengths is the helpful and friendly attitude of the faculty and staff.

Mitch would like to have enough Sun workstations for all the faculty and graduate students (he thinks it may be wishful thinking, but we certainly hope not). In addition, he thinks the Department should continue to support research and especially the sort of teaching that provides the fundamental knowledge that makes research possible.

## Graduate Student Profile: Dennis Ng

Dennis is one of our international students, originally from Hong Kong. He is a PhD student and hopes to complete his degree in December of 1990. He started his undergraduate work at the Hawaii campus of Brigham Young University and later went to the Provo campus where he received his undergraduate degree in computer science in



1982. He stayed at Brigham Young for his MS and finished that degree in 1984. His MS work was in the area of form-based query languages.

Dennis selected Kansas State for his doctorate work because of the central

location of our school and because there were several professors here at that time with national reputations in data bases: Dr. Paul Fisher and Dr. Beth Unger. His thesis work is in the area of non-normal-form data base design, working under the direction of Dr. Beth Unger and Dr. Austin Mel-

ton. He is also interested in areas that would comprise theoretical foundations of computer science.

After graduation next year, Dennis plans to pursue a researching and teaching career at a university or perhaps a research-oriented position in industry.

When asked to give his views on the good and not-so-good points of the Department, Dennis commented on the friendly study environment, the close teacher-student relationship, and the computer facilities.

Things Dennis sees as needing improvement are an increase in the number of faculty to better handle the teaching and research loads, and more research grants that could support more research assistants. He feels these two things are necessary to promote research activity in the Department to gain national recognition. Other things he would like to see accomplished are increased funding for faculty and GTAs to match peer institutions, funds for journal and conference subscriptions, and acquisition of needed journals for the Department Library, especially in the data base area.

## Graduate Student Profile: Cindy Cook

Cindy is a Kansas City native and has done all of her formal computer science studies at Kansas State. She finished her undergraduate degree in 1989 and then decided to stay with us for her MS



degree. She has quite a lot of practical work experience, having worked for Computing and Telecommunications Activities (Computing Center to our non-recent graduates) for most of her four undergraduate years.

When Cindy was in her senior year, she was working with Dr. Maria Zamfir-Bleyberg and through that experience Cindy was offered an assistantship to continue her studies in the MS program. She lists that opportunity as a major reason in her decision to stay at Kansas State, plus familiarity with the

school influenced her thinking.

Dr. Zamfir-Bleyberg continues to be Cindy's major professor and her research is working toward a semantic data model using KEE on the SUN workstations.

After Cindy completes her MS, she would like to work in industry and try to get a feeling about what is really needed by the general population that can be provided or improved by the use of computers. She would then like to return to school to work toward a PhD, and do work that has practical as well as theoretical value.

Like our other graduate students, Cindy believes a major strength of the department is the friendly attitude of the faculty and their willingness to talk to students. Cindy would like to see the Department be able to expand and strengthen our data base course offerings and research. She feels that the Department needs to project a more positive image in that area, and students need to see the opportunities that are available in that large employment area.

## Department Scholarship Winners

Troy Anderson is one the IBM Employees Scholarship winners this year. He is originally from Osborne, Kansas and is a junior majoring in Computer Science and Information Systems.

Troy has managed to find the time for numerous activities here at K-State and be an outstanding student. He is on the Residence Hall Governing Board, the Residence Hall Floor Government, and designed and painted a wall mural as part of a floor redecoration project. Troy's attention to studies is evidenced by his selection to Upsilon Pi Epsilon, Golden Key, and Outstanding College Students of America. He is a State of Kansas Scholar and is on the Dean's Honor list. His plans include attending graduate school.

In his scholarship acceptance letter, Troy emphasized the importance of industry support to help students reach their goals. The Department certainly echos those sentiments.

Teresa Detter, the second IBM scholarship winner, is an incoming freshman from Concordia, Kansas and plans to major in Computer Science and mathematics. She was the Valedictorian of her class, a Governor's Scholar, State of Kansas Scholar, and in the National Honor Society. Teresa has been active in one of the school's service clubs, the Kayettes, and was a member of the concert band, the cross country team, basketball team, and track team.

The Department received a generous scholarship grant from Conoco this year and the Dean of Arts & Sciences matched that amount, enabling us to make several additional scholarship awards for 1989-1990. The following students will receive those joint scholarships.

Jared Friesen is a junior from Hesston, Kansas. He is a transfer from Hesston College and is majoring in Information Systems. He has done extensive programming for Executive Aircraft Consulting in Hesston, helping to install and maintain their local area network. Jared plans to take technical electives in the communications analyst track and graduate in spring 1991.

Chris Thompson is a sophomore from Stilwell, Kansas and is working on a dual major in Computer Science and mathematics. Chris attended Johnson County Community College and Old Dominion University prior to coming to Kansas State. He earned numerous honors while in high school, including National Honor Society and Kansas Honor Scholar. In addition to his excellent classroom work, Chris is a member of the varsity golf team.

Greg Haynes is an incoming freshman from Colorado Springs, Colorado. Greg was the Valedictorian of his class and has been extremely involved in school and community activities as well as earning scholastic honors. Greg is in the National Honor Society, the National Honor Roll, and named one of the Most Outstanding Students for High School Math, to name a few. Greg has developed several programs that are still used in his high school.

Congratulations to all our scholarship winners!  
**Special thanks to the following companies for their scholarship support:**  
**International Business Machines**  
**Conoco Oil Corporation**  
**Phillips Petroleum Corporation**  
**DST Systems**

## Summer On Campus Students Donate "Hard Cash"

Since 1980, 50-70 AT&T employees from around the nation have been spending 5 weeks of their summer at KSU, enhancing their technical skills and pursuing a MS in Computer Science in this Department. More than 70 have received the MS degree. In a scenario reminiscent of each member of a family contributing to save the home, in the past two summers these students have contributed more than \$7,000 to the Department, while they

were still in the program. In a time when funding from the State of Kansas is minimal to support the operation of expensive science and engineering computing labs, we could not make progress toward excellence in instruction and research without this truly "family" style commitment to KSU. This is an open letter of thanks to the Summer On Campus family, past and present.

## Yes, I want to help support the Development Fund!

I want to support the Department of Computing and Information Sciences. Enclosed is my check for \$\_\_\_\_\_ made payable to the KSU Foundation but designated to the CIS Development Fund.

I want to pledge my support for the Department of Computing and Information Sciences for:

\$500     \$250     \$150

to be paid in \_\_\_\_\_ installments. Enclosed is my first check for \$\_\_\_\_\_. Please bill me annually for the next \_\_\_\_\_ years. I would prefer billing in the \_\_\_\_\_.

Department Library  
 Faculty and Student Development  
 Scholarships and Fellowships

This gift  does  
 does not qualify for a matching gift from my employer.

Date \_\_\_\_\_ Class \_\_\_\_\_

Name \_\_\_\_\_

Street \_\_\_\_\_

City, State, Zip \_\_\_\_\_

Authorized Signature \_\_\_\_\_

Business or employer \_\_\_\_\_

Please return to KSU Foundation, P.O. Box 1806, Manhattan, KS 66502.

## The Computing and Information Sciences Development Fund

Private funding continues to be critical to the success of the program, the faculty and the students. We still have three major categories which we believe to be primary to the advancement of the Department. First, the university library has sustained major reductions, forcing the cancellation of many journal and proceedings subscriptions. We have put as many resources as possible into our own library in an attempt to keep current literature available. Second, scholarship and fellowship funding is the best way to attract quality undergraduates and graduates. The "market" is extremely competitive for the bright student. Third, we want our students to be exposed to the latest ideas in computing, and to do so we must be able

to invite good seminar speakers and support faculty and student travel to seminars. A good number of our graduate students presented papers at conferences the past two years, thanks to your help in attracting quality students and helping to fund their travel.

We established the Development Fund three years ago to help meet our critical needs. If you would like to help us maintain a top quality program, please use the form above. Your employer may provide matching funds. We hope you still consider yourself as part of the CIS Department family and you will want to help with your donation, large or small. We are most appreciative of your support—thank you!

Virg E. Wallentine, Department Head

## Nichols Nugget: Get the good word out!

As we all know, the demand for computing professionals is still rising. Most businesses and industries are in desperate need of computing expertise. In spring 1989, three times as many companies came to campus to interview graduates as we had graduates who wanted to interview. The basic problem is that high school students,

their parents, and high school counselors seem to think there are few jobs in computing. We need help. If you have the opportunity to visit a high school and talk about your profession, please accept the invitation and give the students an opportunity to hear the truth; we work in an exciting field.

The Department of Computing and Information Sciences  
234 Nichols Hall  
Kansas State University  
Manhattan, KS 66506

### Keeping Track

We're interested in you! Please take a moment to fill out the information form below and return it to us.

Name \_\_\_\_\_ Street Address \_\_\_\_\_  
City, State, Zip \_\_\_\_\_  
Year Graduated \_\_\_\_\_ Degree \_\_\_\_\_ Current Company \_\_\_\_\_  
My job or position \_\_\_\_\_  
Questions for the Dept. or alums I would like to contact: \_\_\_\_\_

