CS Alumni News

Winter, 1988–89

University of Illinois at Urbana–Champaign
Computer Science Alumni Association Constituent Group

SECOND ANNUAL ALUMNI MEETING HELD

The second meeting of the Computer Science Alumni Association Constituent Group was held on Wednesday, April 6, 1988 at the Digital Computer Laboratory. The meeting date was chosen to coincide with the ground breaking ceremony for the new addition to DCL.

Prior to the meeting, the attendees pored over old photos and newspaper clippings about the department. The Student ACM had prepared a timeline chart with significant events marked and illustrated with photos. Since Romine Street (between Kenney Gym and DCL) is being destroyed by the DCL construction, it was thought that some remembrance for the old brick street would be appropriate. So each attendee was presented with a commemorative paperweight made from a cross sectional slice of a brick from Romine Street.

The meeting was called to order by Fontaine Richardson, acting President of the Group. Fontaine began a round of self–introductions.

Professor William Kubitz, Associate Head of

the CS Department, presented a "State of the Department" report. Professor Kubitz reported that the Department was growing steadily. Professor Kubitz then presented an update on the new addition to the DCL building.

Rich Bloch, President of the Student Chapter of the ACM, reported on the student ACM activities of the past year. The chapter has again been very active, with sponsorship of a job fair, plant tours, and involvement in Engineering Open House.

During the formal business portion of the meeting, a set of bylaws was approved, and officers were elected. The following people were elected:

President: Fontaine Richardson, Ph.D. '68
Vice President: Richard Schell, Ph.D. '79
Vice President: Jeff Glickman, B.S. '82
Vice President: Glen Kowack B.S. '60
Treasurer: Denise Raffel, B.S. '85

The meeting was then adjourned for mingling and libations (provided courtesy of Gould Computer Systems).

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FROM OUR PRESIDENT

Fontaine K. Richardson, Ph.D. '68

Dear Fellow Alumnus/a:

When we formed the Computer Science Alumni group, I agreed to serve as President because I believe that we can individually and collectively benefit from strengthening our affiliation with the University, our fellow graduates, former colleagues on campus, current students, and the faculty. Living in the Boston area for the last twenty years, I have experienced first hand the difficulties of maintaining contact with the people I met during my University experience.

In case you hadn't heard, our Computer Science alumni represent approximately 10% of the Computer Science graduates in the United States. The U of I Computer Science department ranks nationally in the very top tier of departments of all public and private universities year in and out. We hold interesting jobs in the semiconductor, computer systems, software and telecommunications industries. Our positions range from presidents of companies to new entrants in the job market. We tend to cluster in geographic area including: Urbana, Chicago, Florida, Boston (including Route 128 to Route 495), Upstate New York, Dallas, Austin, Houston, Phoenix, Minneapolis and St. Paul, Los Angeles basin, Silicon Valley, Portland, and the Rockies. Because of our geographic diversity, we are not as likely to be involved in the other U of I Alumni activities.

I expect the Computer Science Alumni group to provide opportunities for you to renew friendships from your days on campus, to make new friends with people who share the same educational background, and to learn of the many new and exciting things that are happening on campus that could be important to your current and future situations.

We need your help and involvement to further define and develop what the Computer Science Alumni group can mean to you. The first step I can suggest is to join the alumni group. A range of second steps come to mind: contribute an article for this newsletter, help organize a Computer Science Alumni organization in your area, and re-establish contact with friends and faculty on campus.

Let me encourage you to participate with us in building a valuable organization to cater to the needs and desires of our Alumni group. Please feel free to contact me with your thoughts and suggestions.

Respectfully,

Fontaine K. Richardson, Ph.D. '68
Eastech Management Company, Inc.
Boston, Massachusetts
(617) 639–6130

STUDENT ACM

Rich Bloch, B.S. '88

The Student Chapter of the Association for Computing Machinery at the University of Illinois at Urbana–Champaign (the ACM at UIUC) is dedicated to the education and understanding of computer science and applications—"computing science"—in society. As the official registered student organization of the Department of Computer Science, the ACM at UIUC offers its student membership immediate insight into the latest developments in computer science and offers a variety of related services, including:

• The annual ACM Career Day—to help members place jobs in the academic and business communities

• The Corporate Liaison Committee— responsible for introducing corporate organizations to ACM members interested in job placement and internships, and maintaining an ongoing business relationship between the University of Illinois and corporate affiliates

• ACM National Lectureship Series— designed to bring international speakers in the computing sciences here to the campus of the University of Illinois and discuss current topics of mutual interest

• ACM Professor Symposia—allows Department faculty members to discuss their particular areas of expertise with interested undergraduate and graduate students working in their fields of academic concentration

• An ACM Newsletter—our bi–weekly newsletter is distributed to nearly 1500 students and professionals on campus and abroad. Additionally, the ACM at UIUC headquarters the ACM National Student Newsletter published semianually.

• Special Interest Groups (SIGs)—designed to allow members to specialize in specific fields of concentration, ACM at UIUC SIGs include:
    SIGART — artificial intelligence
    SIGBIO — biological and medical sciences
    SIGGRAPH — computer graphics and design
    SIGMICRO — microcomputers
    SIGMUSIC — music synthesis
    SIGNET — system networking
    SIGOPS — operating systems
    SIGUUCP — Unix users and C programming

• The ACM at UIUC also sponsors Peer Counseling Seminars every semester prior to on–campus registration as a service to UIUC students, and as a means to bring them the very best in their academic career here at the University of Illinois.

The ACM at UIUC, by working in close association with the Department of Computer here at the University of Illinois, is capable of providing both undergraduates and graduate students with an effective channel of communications and continuing education, and would hope that business and industrial organizations take advantage of our services.

DEAN VAN VALKENBURG RETIRES

After four years as dean of one of the top engineering colleges in the nation, **Mac Van Valkenburg** has retired.

William Schowalter, Chairman of Princeton University's Department of Chemical Engineering, has been named the new dean of the UIUC College of Engineering. Schowalter will assume his new post in February 1989. Schowalter received his M.S. in 1953 and his Ph.D. in 1957 from the University of Illinois.

STATE OF THE DEPARTMENT

Bill Gear, Ph.D. '60

In spite of the University budget problems, the department remains very healthy. This year we received a second infrastructure grant from NSF. This provides state–of–the–art equipment which enhances our graduate education. For the undergraduates, we have equipped a number of instructional laboratories, both from company gifts and from state and federal funds. We now have laboratories with AT&T 3B2's, IBM AT's, IBM RT's, and SUN's. We are grateful to AT&T and IBM for their support.

If you live in Illinois, you undoubtedly have seen news stories about the budget problem. In Fiscal Year 1988 (FY88 which runs from July 1, 1987 to June 30, 1988) the university budget was cut about 4%. There were no pay raises and operating budgets were cut. (The central administration wisely absorbed more of the cut so the departments lost closer to 2%) For FY89, a small amount of new money was added for pay raises, and more was obtained by a further reduction in operating budget. Now pay levels are among the lowest amongst our competitors and the operating budget is so low that we are relying on money generated by unpaid leaves of absence to cover costs. A number of departments have lost staff because of these problems. However, the morale amongst the DCS faculty is generally high because all sense that the department is moving forward rapidly. The number of external grants is growing, alumni support is increasing (for which we are extremely grateful since that helps us through the tough

times), and the large number of new faculty are forming strong collaborations with older faculty and other new faculty. We look forward to the time when the budget situation is reversed and we are again back on the track of growth to the planned 55 faculty level. In the meantime, the challenge is to do better than others with the resources we have, not to sit around and complain!

The most obvious development for the department is the construction of our new building. If you come to campus (and I hope you will visit and stop in and see us), you won't be able to miss the construction — in fact you may have trouble finding our old two story building. Only the north doors remain usable as three new stories rise on the other three sides. The noise and dirt are something of a nuisance, but the thought of the space we will have in the Spring of 1990 makes it all worthwhile. Before the opening of the new wings, we will lose a little space during to construction, but the fact that seven of our faculty will be residents in the new Beckman Institute when it opens in the Spring of 1989 will relieve the pressure. When the new wings open, we will be able to bring all of our instructional laboratories, and assistants, now housed in a variety of buildings, together, provide space for the very active student groups in the department, and finally provide lounges for the students and staff.

Our new building is part of the large north campus development discussed elsewhere in this issue. The centerpiece is the new Beckman building, a magnificent structure with around 300,000 gross square feet designated for interdisciplinary research programs. Faculty can apply to place research programs in the Institute. A committee selected the programs to be part of the Institute at start up, and will decide which ones to continue and which ones to replace in the future. As I said earlier, the department will have seven faculty (in AI and related areas) as full time members of the Institute, probably a higher percentage than any other department on campus. Three other faculty will be part time, that is, they will have some of their research programs in the Institute and others in the department.

This year, a major discussion topic on campus is the general education requirement for all undergraduates. As you are probably aware, many universities have been re-examining their undergraduate programs to see if they are providing the right sort of education for tomorrow. There is a lot of concern nationally about the drop in the quality of early science and mathematics training, and about the narrowness of some undergraduate curricula. There are proposals to increase the number of hours of general education to twelve in each of the areas of (1) historical, interpretive, and evaluative studies, (2) social and behavioral sciences, and (3) natural, technological, and mathematical sciences. There is also a proposal to require three semesters of a single foreign language for everybody (or three years of high school language). There will be a lively debate on this issue in the coming months. The views of alumni are always important to us: after all, you are our principal product and you know whether we were doing the right things for you. Please do not hesitate to let us know what you think. Using the alumni notesfile system (described elsewhere) is an easy way to do this.

FACULTY AWARDS

For the first time in campus history, one professor has received two major teaching excellence awards in the same year— C. L. (Dave) Liu, Professor of Computer Science. In Spring 1988, Professor Liu received both a Burlington Northern Foundation Faculty Achievement Award and a Campus Award for Excellence in Undergraduate Teaching.

The Burlington Northern award is given in recognition of unusually significant and meritorious achievement in both teaching and research during the academic year. The Campus Award for Excellence in Undergraduate Teaching is given to outstanding teachers of undergraduates, based on nominations and evaluations by the students themselves.

Professor Liu, a member of the UIUC faculty since 1972, is a pioneer in the application of combinatorial mathematics to computer science. In recent years, he has become one of the major researchers in the algorithmic aspect of very large systems integration, according to Andrew Yao of Princeton University.

A University Scholar, Guggenheim Fellow, and Fellow of the Institute of Electrical and Electronics Engineers, Professor Liu has been on THE DAILY ILLINI's "Incomplete List of Teachers Ranked as Excellent by Their Students" virtually every semester since 1975.

In describing his goals as a teacher, Professor Liu has said "My foremost goal in teaching a class is to motivate my students, to create a sense of excitement, to help my students to fall in love with the subject matter, and to provide them with an enjoyable and a challenging educational experience. My second goal is to help my students to understand the importance and the significance of the material, to convey an overall picture of what the course is about, and to relate the course to other courses and to other disciplines."

In Spring 1988, **Michael Faiman**, Professor of Computer Science, won the Halliburton Engineering Education Leadership Award. This award has existed since 1977 and is given to an engineering faculty member who has demonstrated leadership in engineering education. Superior teaching that serves as a model of what to teach and how to teach, effective leadership in departmental and college faculty groups that establish curricular and educational goals, outstanding service in college activities that provide or develop future educational directions, effective commitment to the development of students and younger staff members and national contributions to education are the forms of leadership that are recognized.

Duncan Lawrie, Professor of Computer Science, was recently appointed to the position of Vice President for the IEEE Computer Society Press. Professor Lawrie is a Fellow of the IEEE, and is past Secretary to the IEEE Board of Governors.

LIST OF FACULTY AND THEIR INTERESTS

G. G. Belford
Computer Systems Modeling &
Analysis

R. H. Campbell
Software Engineering & Operating
Systems

G. C. Collins
Artificial Intelligence & Learning

N. Dershowitz
Program Development &
Verification

H. Edelsbrunner
Computational Geometry

M. Faiman
Microprocessor Systems, Networks,
CAD

K. D. Forbus
Artificial Intelligence & Qualitative
Reasoning

H. G. Friedman, Jr.
Operating Systems & Computer
Assisted Instruction

A. M. Frisch
Artificial Intelligence, Inference, &
Language

C. W. Gear
Algorithms & Systems for Numeri-
cal Problem Solution

M. T. Harandi
Expert Systems & Software
Engineering

R. E. Johnson
Object–oriented Programming &
Distributed Systems

L. G. Jones
Computer Aided Design & Software
Engineering

L. V. Kale
Parallel Architectures & Logic Pro-
gramming

S. N. Kamin
Program Development &
Verification

S. M. Kaplan
Language Design & Tools

T. Kerkhoven
Solution of PDEs, Semiconductor
Simulation

D. W. Knapp
Design Automation, Artificial Intel-
ligence for DA

W. J. Kubitz
Graphics & VLSI Design Automa-
tion

D. J. Kuck
Structure of Computers & Compu-
tations

S. M. Kuck
Database Management Systems,
Relational Design Theory

D. H. Lawrie
Computer Organization & Software

K.–J. Lin
Distributed Software & Systems

C. L. Liu
Combinatorics, Algorithms & CAD

J. W.–S. Liu
Computer Networks & Distributed
Systems

M. D. Mickunas
Operating Systems & Compiler
Construction

S. Muroga
Logic Design & Design Automation

P. Ng
Distributed Systems & Operating
Systems

D. A. Padua
Languages, Compilers & Environ-
ments for Parallel Programming

L. B. Pitt
Theory of Computation & Machine
Inference

W. J. Poppelbaum
Hardware Systems

S. R. Ray
Biomedical Computer Design &
Applications

U. S. Reddy
Functional & Logic Languages

D. A. Reed
Parallel Computation & Computer
Systems Modeling

E. M. Reingold
Analysis of Algorithms & Data
Structures

L. A. Rendell
Artificial Intelligence, Inductive &
Genetic Systems

J. E. Robertson
Computer Arithmetic

A. H. Sameh
Parallel Computation & Numerical
Linear Algebra

P. E. Saylor
Numerical Linear Algebra &
Scientific Computing

R. D. Skeel
Numerical Analysis & Scientific
Computing

D. C. Wilkins
Artificial Intelligence, Knowledge–
based Systems

M. S. Winslett
Database Management Systems, AI
& Design Automation

PROFILE OF NEW FACULTY

Leonard Pitt

Assistant Professor, 8/21/85–Present

Ph.D. from Yale University, 5/85

Fields of Active Research: Machine learning, theory of computation, inductive inference, probabilistic algorithms, complexity theory, and approximation algorithms for NP–complete problems.

Thomas Kerkhoven

Assistant Professor, 1/6/86–Present

Ph.D. from Yale University, 1985

Fields of Active Research: Semiconductor simulation, mathematical analysis of algorithms for physical problems, nonlinear partial differential equations, scientific computation.

David W. Knapp

Assistant Professor, 8/21/86–Present

Ph.D. from University of Southern California, 12/86

Fields of Active Research: Problems of Design Automation system integration, including: models of the design process; tool management; representation of tools, designs, and design process histories; and problems associated with the integration of database and artificial intelligence technology into large design automation systems.

Pui Ng

Assistant Professor, 8/21/86–Present

Ph.D. from Massachusetts Institute of Technology, 8/86

Fields of Active Research: Operating systems, programming languages, distributed systems, database management systems, and highly available systems.

Larry G. Jones

Assistant Professor, 8/21/86–Present

Ph.D. from Pennsylvania State University, 8/86

Fields of Active Research: VLSI, Interactive CAD environments, compiler construction, programming languages theory and design, relational data base theory and design, software development systems.

David A. Padua

Assistant Professor, 8/21/87–Present

Ph.D. from University of Illinois at Urbana–Champaign, 1980

Fields of Active Research: Multiprocessor Design: Overall machine organization, instruction set design, interconnection network design, memory hierarchy management, and task scheduling. Compiler techniques for FORTRAN, USP and Prolog. Design of vectorizers and concurrentizers. Parallel Language Design.

David C. Wilkins

Assistant Professor, 8/21/87–Present

Ph.D. from the University of Michigan, 1987

Fields of Active Research: Artificial intelligence, expert systems, machine learning, automatic programming, intelligent tutoring.

Marianne S. Winslett

Assistant Professor, 8/21/87–Present

Ph.D. from Stanford University, 1987

Fields of Active Research: Database systems, automated reasoning, VLSI design and manufacturing.

1970's

Harold C. Adams, M.S. '71, retired from the US Air Force in 1986. Harold is now with Combustion Engineering, Ft. Huachuca, Arizona, where he is Manager of Software Engineering on the Training Evaluation Complex for the US Army Intelligence Center & School. The project implements battlefield scenarios on real–time microcomputer system, simulating hostile radar and communications signals. Harold is also an Adjunct Professor of Computer Science at Chapman College, where he teaches Programming Languages, Operating System Design, and Compiler Theory and Design.

Dennis K. Romine, B.A. '73 has been with Technicon Instruments since July, 1985. Dennis began working on the H & 1 blood analyzer product. In September, 1986, he took over as group leader of the software staff for Hematology. In March, 1988, he took over as group lead of the software support staff, with responsibility for generating system and software requirements and specification; systems and software testing; and software configuration management control for the Hematology SBU R & D division.

Janet S. Chin, M.S. '73, reports that after years of managing software development, she became an independent consultant specializing in computer graphics. Janet is President and Primary Consultant for Chin Associates in Berkeley, California. She's working with computer products vendors in the planning and design of their products. She's also giving courses on computer graphics standards. Since 1979 Janet has been an officer of the technical committee of Computer Graphics (X3H3) for the American National Standards Institute (ANSI) and a participant in a leadership role in the international arena.

Dan Hyde, Ph.D. '75 is currently teaching at Bucknell University in Pennsylvania.

Marc Martinez, B.S. '77 lives in Chicago with his wife, **Susan Price** and two boys, **Jeffrey** age 4 and **Ross** age 2. In 1987 Marc became a partner in the Manufacturing Systems Practice of the Management Consulting Group with Arthur Young & Co. Marc got his MBA in Finance from the University of Chicago in 1982.

Dan Pitt, Ph.D. '78 spent the summer of 1987 as a visiting scientist at the ROLM Corporate headquarters in Santa Clara, California. While there, he horsed around with the Silicon Valley branch of Professor Poppelbaum's I.E.L., including key members of the notorious I.E.L. Marching Band (cf. Champaign–Urbana's 1976 U.S. Bicentennial July 4th parade and other celebrity appearances). Co–horses were **Mike Robinson, Ph.D. '80, Marty Newman, Rob Catlin, M.S. '76, Bob Pleva, M.S. '76, Chris Xydes, M.S. '77, Bill Stenzel, M.S. '75,** and even **Ehud Bracha, Ph.D. '78** who was on sabbatical from Israel and working at SRI International. Dan has also maintained contact with the mother of **Gilles Garcia, Ph.D. '79.** Dan maintains that she, in Paris, remains a far better correspondent than Gilles, in Boston, will ever be. In 1986, Dan married concert violinist **Claudia Bloom,** a member of Duke University's acclaimed Ciompi Quartet. She is at present preparing to audition for the I.E.L. Walking Orchestra. Dan now works for IBM in Durham, North Carolina.

John L. Larson, Ph.D. '78, joined the National Center for Supercomputing Applications at the U. of I. in October 1988. John was previously employed at Cray Research.

1980's

Keith Hartsough, B.S. '80 is an Associate with Mercer Meidinger Hansen, Inc. working mostly on actuarial systems using PC's. He has been with the firm since graduation, working in Cincinnati, Louisville and Atlanta on actuarial client work and computer projects. Since attaining Fellowship in the Society of Actuaries, Keith's work has mostly involved client adaptations of the firm's software systems. Keith, who

lives in Stone Mountain, Georgia, will now be working more on designing new systems, as well as converting mainframe systems to run on microcomputers.

Susan (Woodier) Lottes, B.S. '81 lives in Cedar Rapids with her husband, **Paul William Lottes (Bill)**, also a U of I alum. Bill is in his second year of a residency in Family Practice. He will finish in June, 1989, and then will probably join an existing practice in Iowa, Illinois or Wisconsin. Susan is a "full-time Mom" at home for **Karen** (who will be 4 years old in March). Susan and Bill should be busy with a new baby, which was expected in August. Susan would like to work again in a Computer Science career once their children are older.

William (Bill) Bearden, B.S. '82 has been with Quintron Corporation in Quincy Illinois since 1984. He is now Manager of Data Processing, and oversees an HP3000/48 at Quintron, which is a manufacturer of transmitters, link equipment and base station equipment for the radio paging industry. Bill spends what little spare time he has playing racquetball, and studying computer modeling of the brain.

Several U of I graduates have recently moved to Colorado Springs, Colorado to join startup Prisma, Inc. Prisma is constructing a fast Gallium-Arsenide based computer using Sun Microsystem's SPARC architecture and the UNIX operating system. **Rob Kolstad, Ph.D. '82** joined Prisma

in June 1988, leaving startup CONVEX Computer Corporation after 5.5 years and two processor families. Rob is manager of the utilities group. The lure of startup company stock then persuaded **Ray Essick, IV, Ph.D. '87** and **Paul Richards, M.S. '84** to make the jump from IBM and U of I Computing Services Office, respectively. Ray is a member of the operating system group, Paul works in the tools group. **Brian Berliner, B.S. '86** was then persuaded to leave CONVEX in Dallas to make his way west to join the operating systems group. **Kurt Horton, Ph.D. '84** left AT&T Bell Laboratories Engineering Research Center in Princeton, New Jersey to arrive in Colorado Springs in October. Kurt manages the Software Test and Performance Analysis group. Prisma was founded by another U. of I. graduate, **Phil Gerskovich**. Phil left Cray after heading up Gallium Arsenide projects and hatching an idea for a low-cost supercomputer made of state-of-the-art technology.

Professor William Kubitz recently had lunch with **Andrew Wisniewski, B.S. '83**. After leaving Illinois, Andrew got his MBA from Harvard. He and **Johanna** have recently moved to Palo Alto, California, and Andrew invites fellow alums to give him a call at (415) 321-3943. Ask him a tough trivia question: you may remember that Andrew was Captain of the U of I College Bowl Team.

David Yen, B.S. '84 tells us that he is currently managing a Software Quality Assurance

Group in Motorola's Cellular Infrastructure Division, dealing primarily with switching and cell site equipment used in cellular telephone systems. David, who is an Engineering Group Leader, lives in Arlington Heights, Illinois.

Amy (Levin) Lasnick, B.S. '85 lives in Los Altos, California, where she is an International Systems Engineer with Informix Software of Menlo Park. Amy got married in June 1987, to **Randy Lasnick**, a 1979 graduate of Arizona State, who currently works as a Marketing Director. In her position with Informix, Amy provides pre-sales support for a relational database software company in Silicon Valley. Amy also reports that **Barbara Swain, B.S. '83** completed her MSCS at UCLA in 1986 and is currently working on a Ph.D. at the University of Maryland. Also, **Jane (Tsatsis) Antonelli, B.S. '84** (a former U of I cheerleader) is married and lives in New York City and is completing a MBA at New York University.

Kellie Keifer, M.C.S. '86 moved to Sunnyvale, California in August, 1988, where she is an applications programmer with Sterling Federal Systems in Moffet Field. Kellie and her husband **Paul** have a new daughter, **Kayla Marie**, born on January 7, 1988.

Kevin J. Barnes, B.A. '86 has settled in Bollingbrook, Illinois, and has taken a new job as a consultant at Computer Dimensions in Lombard.

STUDENT AWARDS

A number of awards are presented each year to outstanding students in the Computer Science Department. The following are the award winners for the past year.

The James N. Snyder Award for Academic Achievement

Awarded to the outstanding Sophomore in each of our two undergraduate programs:

Steven Rudy Landherr
(Sophomore in CS/Engineering)

Jeffrey Biesiadecki
(Sophomore in CS/LAS)

The Institute for the Certification of Computer Professionals – James N. Snyder Award

Awarded to the outstanding Junior with an interest in software development.

Robert David Olson
(Junior in CS/Engineering)

The John R. Pasta Award for Academic Achievement

Awarded to an outstanding Junior in each of our two undergraduate programs:

Chih–Chao Lam
(Junior in CS/Engineering)

David Librik
(Junior in CS/LAS)

The NCR Award of Excellence

Awarded to an outstanding Junior and Senior whose career interests appear to parallel opportunities at NCR:

Terry D. Allen, Jr.
(Junior in CS/Engineering)

Susan Karen Hinrichs
(Senior in CS/Engineering)

The Daniel L. Slotnick Award

Awarded to an outstanding undergraduate in a computer discipline. The scholarship was established to honor the memory of Daniel L. Slotnick, a member of the department from 1965 to 1985 and the designer of Illiac IV.

Kevin Michael Klein
(Senior in CS/Engineering)

The Department of Computer Science Outstanding Teaching Assistant Award.

Awarded to the outstanding teaching assistant in undergraduate assistance:

Alan M. Carroll
(Graduate Student in CS)

PARRIS EGBERT HONORED

Parris Egbert, a graduate student in the Department of Computer Science, received the highest award given by the American Red Cross, the Certificate of Merit, Thursday afternoon, October 20, 1988. This award is given to people who have saved someone else's life. Parris saved the life of his two–year old nephew about a year ago when the child fell into a swimming pool. Parris noticed waves in the pool and went to see why since he thought no one was swimming and found the child in the pool. The child was not breathing and Parris administered mouth–to–mouth resuscitation to the child and after about 30 seconds the child revived. By coincidence, Parris had just taken an American Red Cross course sponsored by his employer, H–P, a week or two before this. He contacted the proper authorities at that point and the child was taken by helicopter to a hospital where he was kept under observation and the child is now fine. We are pleased to see Parris honored for this humane act.

TAPESTRY LAB ESTABLISHED

A new computer laboratory at the UI will explore ways to make computers work faster and more efficiently.

Researchers will develop software to combine computers using different methods for parallel processing, which allows computers to divide difficult tasks for speedier problem solving.

The National Science Foundation is providing nearly $2.5 million over five years to fund the research, which will be done by computer science professors **Roy Campbell** and **Daniel Reed**.

The addition of this project to the existing research at the National Center for Supercomputing Research and Development makes the UI "a strong site for parallel systems research" Campbell said.

The Campbell and Reed system, called Tapestry, weaves together the best aspects of different processors, which organize and connect their processors and memory differently.

The research effort will involve exploring various kinds of large problems using different methods of parallel processing, and comparing

efficiency of operation. The data will come from problems being investigated by other researchers in the Department of Computer Science.

Professors Reed and Campbell will be using a shared–memory multiprocessor (Encore Multimax) and a message–based multiprocessor (Intel iPSC) linked to each other through a shared–memory pool and to workstations through a network.

KEEPING IN TOUCH

Many CS Alums are able to tap into the UNIX USENET, Telenet, or the ARPANET. Please login right away and let us know how you're doing. The "alumni" signon (no password required) at the Digital Computer Laboratory is:

> alumni@uihub.cs.uiuc.edu
> (internet address 128.174.252.27)

and may also be reached by dialing:

> (217) 333–7893 (300/1200/2400 baud)

You may also send email to

> alumni@a.cs.uiuc.edu.

If the screen is garbled when you dial up, send "break"s until the login prompt is received. If you have further trouble, you can talk to an operator by dialing: (217) 333–3632.

Funding for this newsletter and membership fees are provided by the UI Alumni Association and Department. Because of mailing costs, the only way that you can be assured of receiving future newsletters is to become a member of the U of I Alumni Association. Membership is only $20 per year ($25 for husband/wife), so fill out and send in the attached reply form. Also consider becoming a life member. You can pay in installments, and there are special rates for recent graduates ($50 to $75 less than regular rates). There are a number of benefits, including various newsletters, tour packages (especially for sports events), and group insurance plans. In addition, the CS Constituent Group receives 20% of your dues, which helps pay for this newsletter.

C.S. DEPARTMENT

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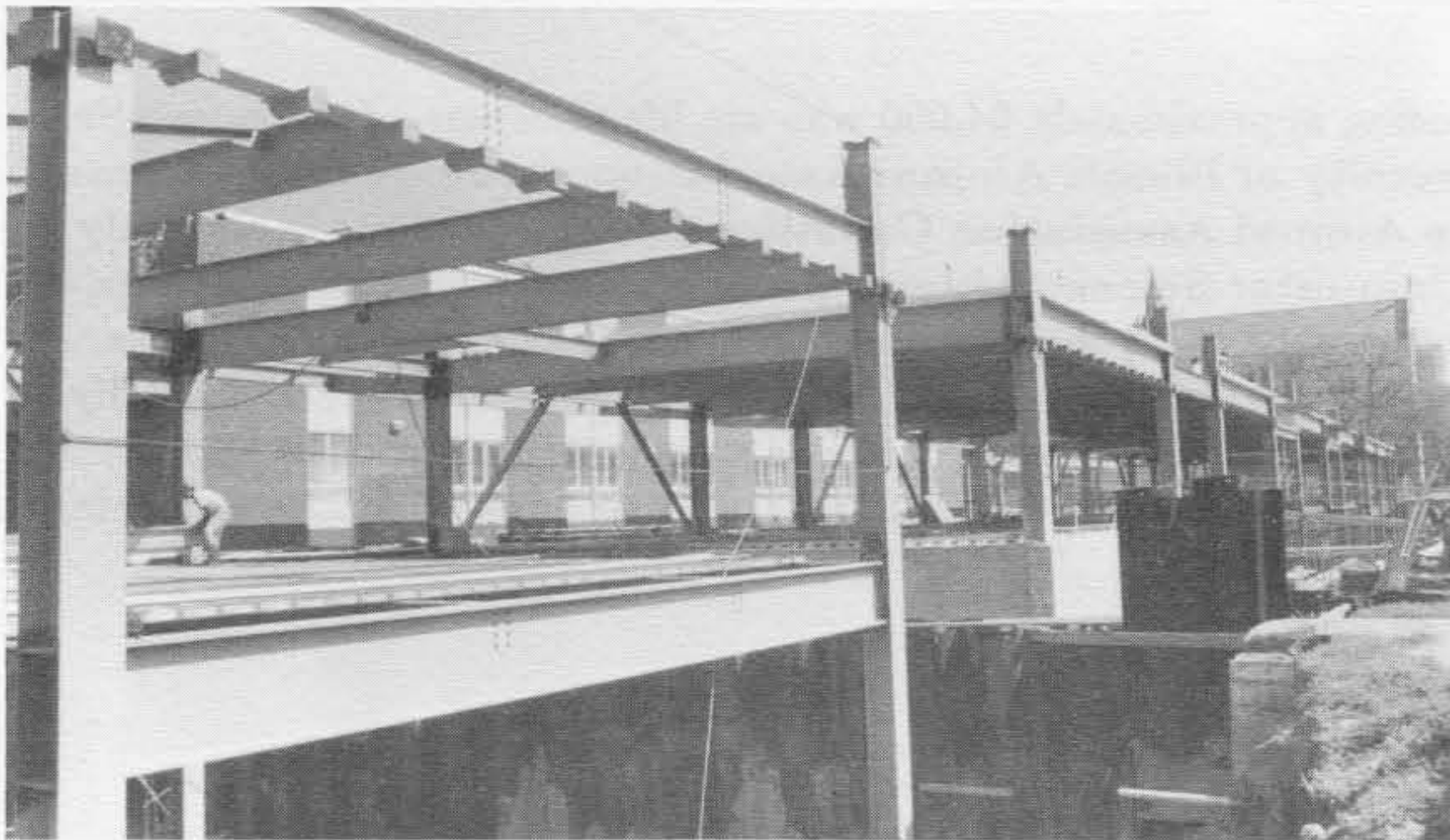ARPANET: rbloch@s.cs.uiuc.edu

CONSTRUCTION PROGRESS

As the photos on this and the following page show, construction is progressing rapidly on the addition to the Digital Computer Lab. All of these pictures are of the southwest corner of DCL, looking toward the northeast. In some of them, you can see Uni High School in the background.

Early 1988. The trees and lawn will soon give way to bricks and steel.

July 1, 1988. Excavation is underway.

September 22, 1988. Erection of steel took only a few weeks.

December 6, 1988. The exterior begins to take shape. The trusses for the corridor atrium are all in place.

UPCOMING EVENTS

1988/89 ANNUAL MEETING

The next annual meeting of the Computer Science Alumni Association Constituent Group will be held the day before the 1988 Illinois Computer Affiliates Program (ICAP) meeting (which is to be held April 13 and 14).

Date: **April 12, 1989**
Time: **3:00 pm**
Place: **Digital Computer Lab**
1304 West Springfield Avenue
Urbana, Illinois

Are You a member of the Alumni Association?

More than 105,000 alumni are — including approximately 64,000 who are life members. Computer Science Graduates who join the University of Illinois Alumni Association automatically become members of the Computer Science Alumni Association Constituent Group. This is the only way to become a member of the Computer Science Alumni Association Constituent Group. As a member of the Alumni Association you'll receive the Illinois Alumni News, as well as publications from your college and from the Computer Science Alumni Association Constituent Group. You'll qualify for our tour program and our insurance program. And you'll continue your loyal involvement with something great — your University of Illinois. To join, either as an annual member or as a life member, return this form with your check to:

Alumni Association
227 Illini Union
1401 West Green Street
Urbana, Illinois 61801

(Make your check payable to the University of Illinois Alumni Association.)

☐ One year single membership — $20   ☐ One year husband–wife — $25

☐ **SINGLE LIFE MEMBERSHIP — $250.**
    (INSTALLMENT PLAN: $300 — $10 DOWN, FOUR YEARLY PAYMENTS OF $72.50.)

☐ **HUSBAND–WIFE LIFE MEMBERSHIP — $300.**
    (INSTALLMENT PLAN: $350 — $10 DOWN, FOUR YEARLY PAYMENTS OF $85.00.)

Name _____ S.S.# _____

Spouse's name (if an alumnus) _____

Does spouse have a U. of I. degree? _____

Address _____

_____

College & dept. _____ College year _____

If you're already a member, thanks for your support. If you graduated within the last two years, write for special life membership rates.

WHAT'S NEW WITH YOU?

Name _____   Degree/Year _____

Address _____   Company _____

_____   Title _____

_____   Business Address _____

Is this a new address? Yes ___ No ___   _____

What's New ... with you ... or with other alums you know ...

Return to: Alumni Group, Department of Computer Science, 1304 West Springfield, Urbana, IL 61801

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