

June 28, 1984

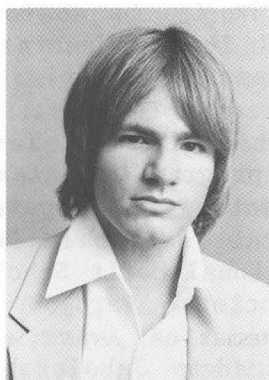
FERMI NATIONAL ACCELERATOR LABORATORY

FermiNews

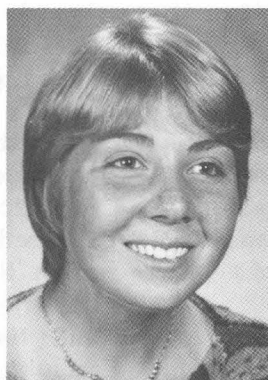
15 NAMED 1984 URA SCHOLARSHIP WINNERS



Berge



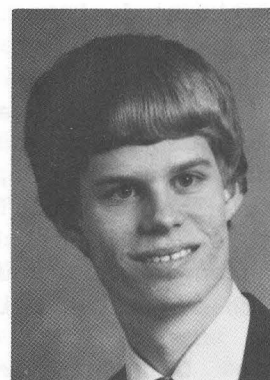
Diebold



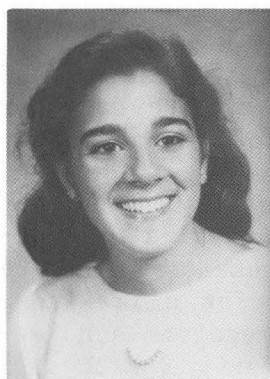
Elliott



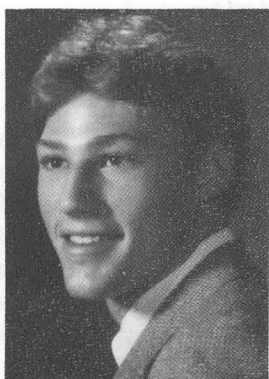
Esser



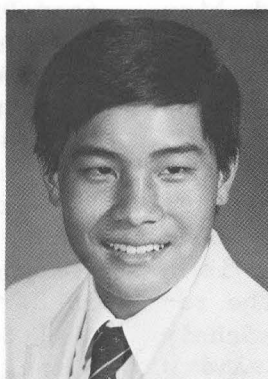
Fulton



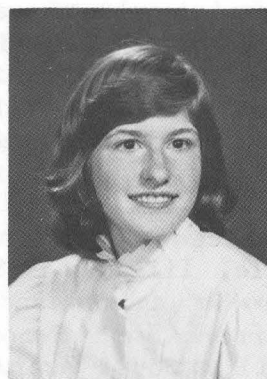
Passi



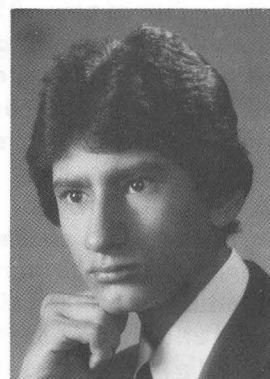
Reed



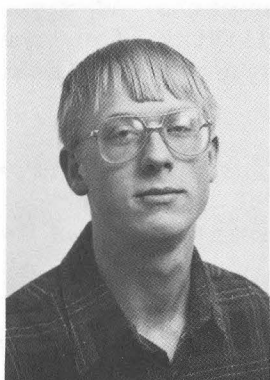
Teng



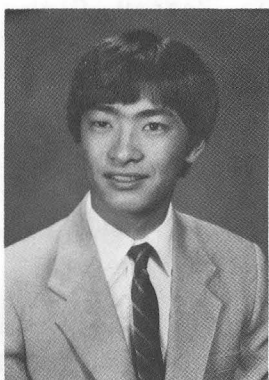
Theriot



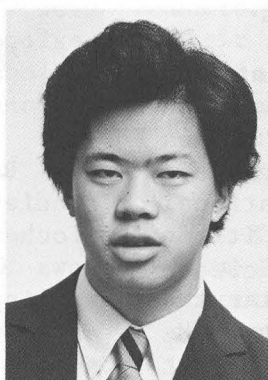
Tikoo



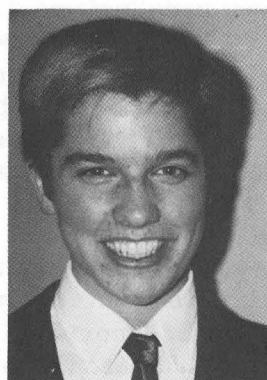
Visser



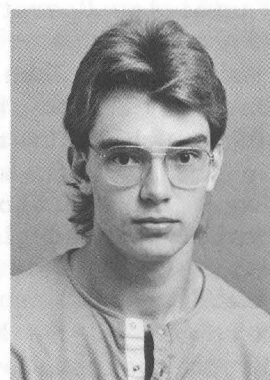
Yamada



Yamanouchi



Walker



Zielbauer

From a pool of 42 applicants, the Universities Research Association has chosen 15 sons and daughters of Fermilab employees to be the recipients of its annual scholarship for the 1984-85 academic year. Each awardee was selected on the basis of their ACT scores. The process was administered by James Matheson, vice president of URA, Washington, D. C., and resulted in the following group.

Anna Mary Sophia Berge plans to attend the University of Wisconsin at Madison to pursue studies in astronomy. A graduate of Batavia Senior High School, she is an Illinois State Scholar and a member of the National —

Honor Society. In addition to being cited in **Who's Who Among American High School Students**, she is the recipient of a National Merit Commendation, a Presidential Academic Fitness Award, a Kemper K. Knapp Scholarship from the University of Wisconsin, and a Rose Johnson Scholarship. Her father, J. Peter Berge, is a physicist in the Collider Detector Facility Group.

Robert Bruce Diebold is a graduate of Downers Grove South High School and the son of Carol Diebold, who works with the Magnet Development and Test Facility Group. He is considering studying pre-law when he attends the University of Illinois at Urbana in the fall.

Christine Lee Elliott plans to attend the University of Illinois at Urbana to explore the fields of astronomy, anthropology, Spanish, Hispanic culture, and history. She is a graduate of Wheaton Central High School and the daughter of Alan Elliott, a member of the Electrical Group of Facilities Operations and Engineering.

Laura Lynn Esser will study computer science and mathematics at Mac Murray College in Jacksonville, Illinois. She is a graduate of Paw Paw High School and the recipient of a MacMurray Alumni Honor Scholarship, a John Philip Sousa Award, and a Marine Band Award. Her father, Dale Esser, is in the Electrical Maintenance Group of Facilities Operations and Engineering.

Steven John Fulton is a graduate of Batavia Senior High School and plans to attend the University of Illinois at Urbana in the fall to major in computer engineering. In addition to receiving a National Merit Commendation, an SAR Good Citizen Award, and a Burger King Math/Science Award, he is an Illinois State Scholar and a member of the National Honor Society. He is the son of Howard J. Fulton who is part of the Technical Support-Engineering Group.

Paula Marie Passi plans to attend Marquette University in Wisconsin to major in Physical Therapy. In addition to being an Illinois State Scholar and a member of the National Honor Society, she is the recipient of a Marquette University Academic Scholarship. A graduate of Benet Academy, she is the daughter of Anthony Passi, a member of the Mechanical Support Group of the Experimental Areas Department.

Casey Allen Reed graduated from Batavia Senior High School with highest honors and plans to attend the University of Illinois at Chicago to major in civil engineering. A member of the National Honor Society and an Illinois State Scholar, he also received a Presidential Academic Fitness Award. He is the son of James R. Reed, a machinist in the Machine Shop of the Technical Support Section.

Michael Nan-hao Teng will pursue the pre-med program at Massachusetts Institute of Technology in preparation for a career in medical research. He is the recipient of a National Merit Scholarship, a National Honor Society Award, a Rensselaer Science and Mathematics Award, and a Haag-Leviton Suzuki Academy Scholarship. A graduate of Hinsdale Central High School, he is the son of Lee C. Teng, a physicist in the Accelerator Division.

Julie Ann Theriot is a graduate of Wheaton North High School and the daughter of Lee Day Theriot, Technical Support Section, and Dennis Theriot, Deputy Head of the Collider Detector Facility. In the fall she plans to major in physics or engineering physics at Massachusetts Institute of Technology. A nominee for a Presidential Scholarship, she has received scholarships from the National Merit Scholarship Corporation, the National Society of Professional Engineers' Educational Foundation, the Rotary Club, and the American Legion, as well as qualifying for the National Forensics League's National Tournament.

Ravinder Kumar Tikoo plans to pursue studies in the field of medicine or biochemistry at the University of Iowa in Iowa City in the fall. In addition to earning a chemistry summer research assistantship at the University of Iowa and being a member of the National Honor Society, he is a graduate of City High School in Iowa City, Iowa, and the son of Jawahar L. Tickoo of the Accelerator Controls Group.

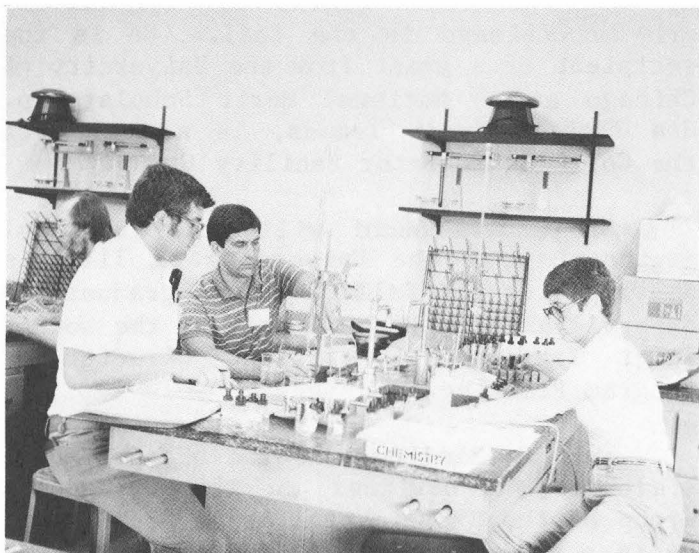
Gerard John Visser is a graduate of Marmion Military Academy and the son of Age Visser, Associate Leader of the Electrical Support Group in the Experimental Areas Department. In the fall he plans to attend the University of Illinois at Urbana to study electrical engineering.

(cont'd on pg. 4)

SUMMER INSTITUTE FOR SCIENCE TEACHERS TO BEGIN

June 18 marked the beginning of the second Summer Institute for Science Teachers, a four-week program designed to enhance the teaching methods and competency of secondary science teachers from the Northern Illinois area. The objective of the Institute is to update high school science courses, thereby encouraging students into the science classroom. The Institute is organized by the Friends of Fermilab Association and funded by the Department of Energy's Office of Energy Research and private sources.

Three days a week, the 45 teacher-participants divide into their respective groups of either physics, chemistry, or biology, and attend stimulating morning lectures which provide updated information on topics usually covered in high school science courses. Lecturers from Fermilab include Leon Lederman, Chris Hill, Drasko Jovanovic, Rocky Kolb, Ernest Malamud, and Leo Michelotti. According to Chris Hill, the physics lecturers "strive to be 'Feynmanesque' in style and content."



Working at their chemistry lab during the Friends of Fermilab Summer Institute for Science Teachers (left to right in foreground) are Gary Kupkowski, Addison Trail High School; John Thorne, Wheaton Central High School; and Terry Gillespie, Bloom Township High School.

In the afternoon, the participants and staff attend laboratory sessions at Naperville Central High School. Each teacher designs a lab of his own to present to his peers, who will critique it, commenting on what made it effective and suggesting ways

it could be improved to better illustrate the concept under discussion.

On Tuesdays and Thursdays, the morning lectures are plenary sessions covering broader topics on current scientific research and science in relation to the problems of society. Titles of the year's general sessions, which are open to the public, include, "Principles and Impact of Lasers in Science and Engineering," "Volcanoes and Society," "Circadian Clocks at the Base of Life," and "The Biology and Physics of Radiation." At afternoon computer lab sessions two days a week, teachers will learn to write programs in BASIC and to utilize the computer more effectively in their classrooms.

Peer interaction is important in the Summer Institute. They learn not only from the professors and lecturers, but also from each other. An hour and a half lunch/discussion break after the morning lectures provides the opportunity for participants and staff to talk about the new material that has been covered and the labs to come.

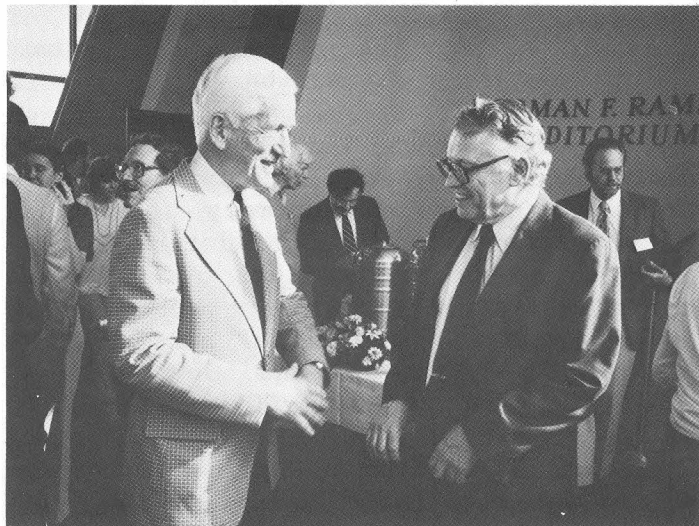
The Institute is not really over after the four weeks of lectures and lab work is completed. Four times during the following school year, all the participants and staff meet at post-Institute follow-up sessions where teachers comment on the usefulness in their own classrooms of the new techniques and information they acquired. The follow-up meetings also solidify the network of participants, so that ideas and comments can be shared in the future.

The participants receive many benefits from the hard work they put in during the Institute. Besides receiving a \$1000 stipend for attending the Institute, teachers can earn three hours of credit from Northern Illinois University.

Stanka Jovanovic is the President of the Friends of Fermilab Association. The Institute Planning Committee includes Marjorie Bardeen, Director of the Institute, Marguerite Cox, and Chris Hill. For additional information on the Summer Institute, please contact Barbara Grannis at MS #105 or ext. 3211.

Fermilab is operated by Universities Research Association, Inc. under contract with the U. S. Department of Energy. Fermilab is published by the Publications Office, P. O. Box 500, Batavia, IL 60510, phone (312) 840-3278.

RAMSEY RECEIVES AWARD



Norman Ramsey, left, talks to Guy Stever, present URA president, at the Annual Users Meeting in April.

Dr. Norman F. Ramsey, first president of Universities Research Association, received the 1984 Medal of Honor, the Institute of Electrical and Electronics Engineers (IEEE) highest award, "for fundamental contributions to very high-accuracy time and frequency standards exemplified by the cesium atomic clock and hydrogen maser oscillator" at the 100th Anniversary Meeting of the IEEE in Boston last month.

Ramsey is currently Higgins Professor of Physics at Harvard University, where he has been working since 1947, and Visiting Professor at the University of Virginia.

His experimental work has ranged from molecular beams to particle physics and has concentrated on precision measurements of the electric and magnetic properties of nucleons, nuclei, atoms, and molecules. An active participant in a number of professional societies, Dr. Ramsey was president of URA for 15 years, president of the American Physical Society, and is currently chairman of the American Institute of Physics' Board of Governors.

INVENTORY CHECK

The Property Office is currently engaged in the required Annual Sensitive Item Inventory. You can help by physically checking the items assigned to you, signing your Sensitive Item Form, and returning the form to the Property Office, Mail Station 337, as soon as possible. Any questions should be directed to Millvenia Stiff, ext. 3585.

URA SCHOLARSHIPS . . .

(cont'd from pg. 2)

Kelvin David Walker plans to attend the University of Florida and eventually become a writer, director, performance artist, synthesizer player, and percussionist for a rock band. Cited in **Who's Who Among American High School Students**, he is also an Illinois State Scholar, a graduate of Glenbard West High School, Glen Ellyn, and the son of James K. Walker, a physicist in the Experimental Group of the Physics Section.

Kouji Yamada is a graduate of Naperville Central High School and plans to major in political science at the University of Chicago in the fall. He is the recipient of a grant from the University of Chicago and a National Merit Scholarship. His father, Ryuji Yamada, is a member of the Collider Detector Facility Group.

Shoji Yamanouchi will study chemical engineering at the University of Illinois at Urbana in the fall. He is a graduate of Naperville North High School and the son of Taiji Yamanouchi, Assistant Director of Program Planning.

Paul G. Zielbauer is the son of George Zielbauer, a designer in the Cryogenics Group of the Experimental Areas Department. He is a graduate of West Aurora High School and a member of the National Honor Society. He plans to attend Iowa State University in Ames to study aerospace engineering.

FOOD, FUN, AND FESTIVITIES AT FERMILAB ANNUAL PICNIC

PICNIC '84 - July 8! NALREC is gearing up for a better-than-ever Fermilab Picnic this year. Buffalo burgers (from a Fermilab-auctioned buffalo), hot dogs, corn-on-the-cob, and other snacks and beverages will be available. A new twist to the Air Show will be the opportunity for individuals to fly one of the models themselves. Try your hand at games and cheer for the All-Star softball players. The Picnic is open to all Fermilab employees, visitors, DOE, and contract personnel. Sunday, July 8, from 11 a.m. to 6 p.m. NALREC is also looking for volunteers to work at this year's picnic in two-hour shifts. If you can spare two hours on that day, please call Sharon, ext. 3598.