Endowments Established

In the past few years we have been receiving increased financial support from our civil engineering alumni. The funds received have been targeted primarily for faculty development and for support of our nationally recognized ASCE Student Chapter. It is very reassuring to learn that our alumni recognize the importance of having competent and dedicated faculty and of the essential role that the ASCE Student Chapter plays in our academic program. A list of the alumni contributions that have been recently received follows.

• Camp, Dresser and McKee Professorship in Civil Engineering established by CDM, Inc. and senior level Northeastern University alumni employed at the firm.
• Hayes Engineering, Inc. Endowed Research Fund established by Mr. Peter J. Ogren, '69, in support of faculty research.
• H.W. Moore Associates Endowment Fund established by Mr. Harold W. Moore, '66, for recruitment and retention of outstanding faculty.
• Walsh Contracting Corporation Endowment Fund. Established by Mr. John G. Walsh, '56, for faculty development.
• Mr. John Sullivan, '63, President of The Geotechnical Group, contributed funds for faculty development.
• Mr. Allan Jacobs, '67, contributed funds to enhance civil engineering laboratories.
• Mobil Oil Foundation, represented by Mr. Stephen Bottomly, contributed funds for faculty development and for the support of the ASCE Student Chapter.

The faculty and students of the Department of Civil Engineering greatly appreciate the alumni support and encourage all alumni to be involved in the activities of NUCEAO, one of the most active continued on page 6

History of NUCEAO

Northeastern University Civil Engineering Alumni Organization (NUCEAO) was started in 1980 by a group from the Class of '79-'80 with the primary purpose of promoting fellowship among members, assistance and inspiration to our civil engineering students. The prominent people were Karen Adams, Denise Evans, Nick Rubino, and James Cahill. This group obtained services from older alumni such as Bertram Berger, Julius Abrams and Bart Bratko. Shortly after, they met with Vice-President Roy Toebes to set up a Student Chapter Assistance Fund, who then turned the entire operation over to the Office of Alumni Relations; thus, NUCEAO was born.

As the organization grew, so did its program and service. The student assistance fund helped offset costs for the student chapter annual report and fees for national conferences presentations and attendance. NUCEAO now services its members with reunion weekends, a newsletter, annual dinners and periodic luncheons.

The organization has been led by very capable alumni leaders since its inception. Those members who have served as president have been, in chronological order: Denise Evans '80, Bob Barton '57, Frank Davis 60, Ed Comeau '58, Stanley Shuman '48, Dan Fritzsch '70, Larry McCluskey '48, Emile Troup '62, and currently, Richard D. Smith '53.

The group has also annually honored an outstanding alumnus who has demonstrated excellence in serving the engineering field, the University, and the community. Recipients of this distinguished award have been: Joseph Lawler '43, William Bruce '30, Julius Abrams '25, Ed Cobb '29, Fenton Keyes '39, James DeSerio '35, Joseph Heney '52, continued on page 2
Message from the CE Department Chairman

Greetings from the Department of Civil Engineering. Through the Newsletter of the College of Engineering I have been relaying to you the latest news and happenings in the Department. I would like to take this opportunity to further share with you some of our accomplishments and future plans, and to ask for your support.

The Department is healthy and morale is high. As many of you know, civil engineering enrollment at Northeastern and nation-wide has been declining. Nevertheless, our Department still has one of the largest undergraduate enrollments in the Northeast region. While we continue to have an important impact upon the civil engineering profession locally and nationally, we also seek to increase the national recognition of the quality programs we offer.

Accordingly, we have been making concerted efforts to improve our academic programs, services and facilities as well as to increase the level of faculty research and scholarly activities. Our undergraduate and graduate programs have been improved and expanded to respond to the current and future needs of the profession. At the undergraduate level we have new design courses where students integrate their academic knowledge on comprehensive design projects. The graduate programs leading to MS and PhD degrees have been strengthened by new courses in bridge design, nondestructive testing, computers in environmental engineering and construction management. We have also introduced degree programs in public works engineering and management, and environmental geotechnology. Our faculty has been strengthened by several new members who are graduates of the top ten graduate schools in the country. During the past five years the civil engineering faculty's involvement in externally funded research exceeded $1.2 million. Many of the faculty are now actively participating in national and international conferences and play leadership roles in professional societies. Strengthening the faculty and providing the necessary support for their activities will continue to be an important priority of the Department. Our ASCE Student Chapter continues to distinguish itself as the most outstanding chapter in the country, and we enthusiastically support its activities.

Throughout this period of increased activity the Department has maintained its major priority of providing quality education. In fact, a student opinion survey conducted by the University indicated that the overall quality of the civil engineering faculty's teaching was ranked first in the College of Engineering. However, our task is not yet done. Our goal is to continue strengthening our programs and faculty. I ask that you join us by providing your personal and corporate financial support for this endeavor. Civil engineering students and the Department continue to benefit from the tremendous support provided by NUCEAO.

Northeastern University has embarked on The Century Fund - Phase II, a University-wide development program. A number of civil engineering alumni have made significant contributions, earmarking the funds to the development of the Civil Engineering Department and its faculty. We now have in the Department endowment funds for faculty support named after the donor alumni. In this newsletter you will find a listing of these contributions. This support is most appreciated and will help to assure continuance of quality civil engineering education at Northeastern University. We look forward to hearing from you about your accomplishments and suggestions. Regards.

Professor Yegian, Chairman of the Department for the past six years, received his Ph.D. from M.I.T. He is a geotechnical engineer with special expertise in earthquake engineering.

NUCEAO History

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Robert Barton '57, Stanley Shuman '48, Francis Keville '69, and Charles Parthum '51.

Quoting our current President Richard Smith '53, "Our current emphasis and continuing effort is to re-establish contact with all past NU civil engineering graduates with whom we have lost touch. We want to encourage them not only to (re)join NUCEAO, but to belong and participate in the growing list of activities."
French students visit Northeastern

Bonjour, good friends. Civil Engineering students from Northeastern welcomed twenty civil engineering students from the University of ENSAIS in Strasbourg, France to "Boston City" as their letters had called it. Our guests were finally here to begin a week's stay in Boston. After months of little communication because of French postal strikes and telephone mishaps, the real challenge of communication was about to begin.

A class trip abroad to explore engineering practices in a foreign country is a highlight of an engineering education at ENSAIS. The trip, entirely funded by students through various fundraisers, is a junior year requirement of their curriculum. The ASCE Student Chapter was asked a year in advance to host the 1989 class trip and accepted the challenge as an opportunity to showcase our local engineering community. A seven person committee was formed to organize activities that best suited the French students' interests. After working through surprises that included the addition of twenty-two electrical engineering students and housing all forty students on a small budget, the committee turned its attention to the engineering side with the goal of offering our guests the best that Boston can offer.

The itinerary formulated by the N.U. students combined technical presentations and field trips with social events so that the entire program would be both informative and entertaining. Response from local civil engineering companies was outstanding as they opened their doors for our guests. All presentations were held at the engineering offices to allow the French students to see as much of the city of Boston as possible along with several engineering workplaces. Haley and Aldrich hosted the first field trip in their field office at the Post Office Square Project where Mark Haley and Dave Shoenewolf gave presentations that were followed by visits to the slurry wall work at Post Office Square and the building site at 99 High Street. Carl Mellea of Howard Needles Tammen & Bergendoff welcomed our group to their offices at the Prudential Center and gave technical presentations on the CANA Transportation Project in Charlestown and the use of CAD in engineering design. Bechtel Parsons Brinckerhoff presented the Central Artery/Third Harbor Tunnel project at their South Station Offices which included a greatly appreciated talk about proposed bridges by Francis Malavergne, a structural engineer from France, when he lectured in French instead of English.

A visit to the new Northeastern University library currently under construction was made available by Jackson Construction Company. Charlie Farthing of Camp Dresser & McKee introduced environmental engineering with presentations on the building of a water treatment plant and sludge composting facilities. Lastly, Metcalf & Eddy gave an overview of the new Deer Island Treatment Plant and the Boston Harbor Cleanup and even included a visit to Kaiser Engineering to see their CAD facilities for the project. All of the technical presentations were greatly appreciated by the students involved who learned many things. Our N.U. students learned that the study of civil engineering in France centers on the design and construction of structures, roads and bridges while the French students realized that a good part of our civil engineering profession focuses on environmental issues.

Social activities were just as much a part of being good hosts and were planned throughout the week. Our chapter was successful in obtaining donations in excess of $2300 to fund these activities through the help of NUCEAO, Dean King of the College of Engineering, M.K. Yegian and the Department of Civil Engineering, the N.U. Engineers' Council, and some corporations. After arriving late on a Saturday night, the next day was spent sight-seeing Boston with a visit to the John Hancock Observatory. On Monday, an official welcome from Dean King was held in the morning along with an informal Faculty/Student Welcoming Reception later that afternoon. One evening activity included a visit to the Omni Theater at the Museum of Science. A visit to the Massachusetts State House was arranged to offer a bit of a cultural perspective along with a

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Scholarship established

The Francis M. Keville Memorial Fund, recently established by the BSCES/ASCE Board of Government, announced a new graduate scholarship in the construction management field to be awarded at Northeastern. The scholarship was established to commemorate Mr. Keville's great leadership and outstanding contributions to the construction and transportation fields as Director of Construction of the Massachusetts Bay Transportation Authority. Mr. Keville, a graduate of Northeastern, obtained his Associates Degree in 1962 and his BS in Engineering in 1969.

The $2,500 scholarship is to be awarded to a graduate student entering his final year in Construction Management in September 1990. The Department of Civil Engineering will accept applications and make recommendations for the scholarship, and the final decision will be made by a committee established by the BSCES/ASCE Board of Government.

ASCE students found in Allandale Woods

Along with the beginning of a new school year, this Fall has shown a renewed interest in community service projects for the ASCE Student Chapter. After a search process that evaluated several potential projects, the chapter agreed to work with the Boston Environmental Department in helping to develop and protect an urban wild area within the city. Allandale Woods Urban Wild in Jamaica Plain offers 31 acres of publicly accessible woodlands made up of city owned land along with private properties designated with conservation restrictions. The students have begun a property survey to locate all property boundaries as a Fall and Winter activity. Plans are underway to develop a new trail from Allandale Street to serve as a new public entrance to the existing trail system. Another Spring activity will be to provide erosion control on the steepest portion of the present trail.

"This project is unique in that the goal is not to build, but to preserve the natural environment. It offers exciting challenges to a civil engineer."

Jamaica Plain has been the recipient of ASCE Community service projects of the past. In 1976, the student chapter designed, financed and constructed a $34,000 outdoor “Coordination and Sensitivity Development Area” for the Boston Center for Blind Children. In 1978, students built a solar-heated greenhouse for the Southwest Corridor Community Farming Project. A 1982 project involved the construction of an outdoor developmental facility for autistic children at the Language and Cognitive Development Center. This new community service project at Allandale Woods presents unique challenges to these civil engineering students. This is a project where the goal is not to build or construct manmade facilities. The students will be working with ecologists, wild flower and trail specialists from environmental groups that include the Appalachian Mountain Club. Having chosen and begun a project different from the ASCE's traditional construction projects, nonetheless, the skills of our civil engineering students will be greatly appreciated as this project unfolds according to the designs of nature.

French students

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visit to a Red Sox Baseball game thanks to the generosity of our N.U. Civil Engineering Alumni Organization. A final Farewell Dinner at the N.U. Faculty Center served to cap a full, fun-filled week where gifts were exchanged and goodbyes were difficult.

When the French students arrived, the language barrier seemed a bit difficult to adjust to. Luckily, Walter Craig, one of our ASCE Chapter members who has since graduated, had just participated in an International Cooperative Work Assignment in France and was fluent in French. Most of the visiting students knew some English but this was the first time for many of them to put it to use. As the week progressed, we began to understand each other very well. The experiences of hosting this program were educational and revealing. To our surprise, we expected many differences between us and instead found very few. The entire week will be a memorable experience for all who participated in it.

Bon Voyage! May we meet again some day soon.
Alumni update

NUCEAO is in the process of updating its alumni records and could use your help. If you know of any alumni that have recently moved, changed their name, passed away, or are simply not receiving our newsletters, please pass this information on to us. We will update our records to see to it that future mailings are properly addressed. Don't forget, the civil engineering network of Northeastern graduates is only as good as our alumni records. Take a few minutes and check with other alumni in your office, call a fellow classmate and see if he/she received our newsletter, jot down the information and send it to us. Your help is appreciated.

To update our records send name, address, company, graduating class and telephone number to: Lawrence R. Welford, P.E., Vanasse Hangen Brustlin, Inc., 101 Walnut Street, Watertown, MA 02172.

Scranton Chairs
1990 Forum

Professor Richard J. Scranton, has been working as Chairman of the Steering Committee for ASCE's fifth quinquennial conference on education for the past three years. The 1990 National Forum on Education and Continuing Development for the Civil Engineer will be held at Caesar's Palace in Las Vegas, Nevada, April 17 - 20. Eighteen multi-disciplinary "tracks" have been created to involve a broad cross section of engineers from each of the major civil engineering technical specialties, as well as from areas that cross each of these specialties - curricula, ethics, design and student quality. Deliberations will take place in group sessions during these Tracks, building on papers written in advance, and on three comprehensive surveys of educators and practitioners. The outcome of these deliberations will form the conclusions of the Forum - conclusions which will impact curricula and set the agenda for all aspects of civil engineering education.

Working with Professor Scranton on the Steering Committee are: Donn E. Hancher, Texas A & M University; Carl L. Monismith, University of California; Carl Selinger, Port Authority of New York and New Jersey; Thomas S. Tarpy, S.D. Lindsey & Associates; Fred F. Videon, Montana State University; George Wadlin, Consultant; William A. Welsh, Penn State; Richard V. Wyman, University of Nevada-Las Vegas.

Annual Dinner

Last year's Annual Dinner was held on March 28, 1989 in the Ell Center Ballroom of Northeastern University, and was well attended. Charles A. Parthum, Class of '51 was honored as Outstanding Engineer of the Year by NUCEAO. In attendance with Mr. Parthum were his wife Mary, their son Steven and his wife Carol.

Student awards were presented to two members of the Class of 1989. Mr. Walter Craig was presented with the Bertram Berger Memorial Award and Mr. Donald Pelouquin was presented with the Joseph L. Lawler Memorial Award. Each of the recipients spoke very effectively about their experiences at Northeastern.

The next annual dinner is scheduled to be held on Thursday, March 29, 1990 at Northeastern. Members will receive a notice of this event well in advance of the date. The Outstanding Engineer for 1990 will be honored and two Student Achievement Awards will be presented.

Ed Comeau, '58, former NUCEAO president (left) and Charles Parthum, '51, Outstanding Engineer of the Year.

CE enrollment

For the past several years, the decline in civil engineering enrollments at NU have followed closely both national and regional trends. From an all-time high of 782 students in the spring of 1980, enrollment has steadily fallen to 341 students in 1989. In spite of the fact that civil engineering freshman enrollments have steadily declined since 1980, recent enrollments indicate that a larger percentage of the engineering freshman class are electing civil engineering as a field of study. Although complete and comparable figures are not yet available for this year, early projections indicate that between 70 to 80 engineering freshmen, or about 22 percent of the entering freshman class, will elect civil engineering as a choice of major. This figure compares favorably to last year's enrollment of 96 freshmen, when 21 percent of the entering freshman engineering class elected civil engineering. Prior to 1989 civil engineering freshmen have only accounted for 10 to 13 percent of the entering engineering freshmen class.
Other events...

• A testimonial dinner was given in honor of Dr. Kenneth G. Ryder, Past President of the University on Friday, November 3, 1989 at the Park Plaza Hotel in Boston.

• The Class of '51, Division A, held a get-together on Saturday evening, November 4, 1989 at Henderson House in Weston. Robert Koopman organized this event, and made all of the arrangements. The affair was well attended and very successful.

• A luncheon was held August 22, 1989 at the Dedham Hilton Hotel. Larry McCluskey of Seelye, Stevenson, Value & Knecht gave an interesting talk and a slide presentation related to the engineering planning for the North Station Transportation Center Development. The meeting was well attended. Emile Troupe discussed the proposed new Engineering Center.

• A luncheon meeting was held on December 12, 1989 at the Dedham Hilton. Gene R. Stevens, Senior Staff Engineer at Simpson Gumpertz & Heger, Inc. spoke on a review of structures around the San Francisco Bay area after the October 17, 1989 Loma Prieta Earthquake.

• NUCAEO is making tentative plans to hold a reception for senior members of the ASCE Student Chapter. This event will be held near the end of the school year.

• A luncheon was held last Fall in association with the review of the CE Department by the Accreditation Board of Engineering and Technology (ABET). Attending the luncheon were several alumni: Robert Marini, '54, President & Chairman, Camp, Dresser, & McKee, Inc.; Heather Mackey Ford, '79, Branch Manager at Westinghouse; John Moalli, '87, doctoral student at MIT; and John Dell'Oro, '89, Exxon Co. USA.

Endowments, continued from page 1

alumni organizations at Northeastern. If you wish to make a contribution in support of the Civil Engineering Department please contact Paul Swindlehurst at the Northeastern University Alumni Development Office at 617-437-2520 or Professor Mishac Yegian at 617-437-2445.