

Price Honored



CBF Trustee Robert M. Price, Jr., received the 1998 Distinguished Alumni Award at Duke University's Founders Day Convocation this fall. The award recognizes Price's contributions at Control Data Corporation, where, starting as a mathematical specialist, he rose to become the firm's Chair, President, and CEO.

Price has provided leadership in the field of education as a member of the Minnesota Business Partnership Education Committee, the National Business Roundtable Education Committee, and as a pro-bono consultant to the New Mexico State Board of Education, where he co-chaired the Professional Development Sub-Committee of the New Mexico Goals 2000 Panel.

Price was an executive-in-residence at Duke's Fuqua School of Business in 1990, and this award, the most prestigious awarded to any Duke alumnus, honors both the receiver and the giver.



Spotlighting Software

The trustees of the Charles Babbage Foundation, meeting in Berkeley in November, called for a new thrust in the history of software development. Building on earlier efforts that have been made at Stanford University, the Smithsonian Institution, and elsewhere, CBI will provide the tools and the support for the collection and interpretation of the history of software.

George Glaser and a Software Task Force including trustees Keith Uncapher and Bill Coleman, and historians Henry Lowood and Paul Edwards, provided a blueprint for a multi-year program of initiatives.

The intent is to establish the Charles Babbage Institute (CBI) as a national clearinghouse for records to support the work of historians and archivists in the history of computing, with special emphasis on the history of software [see *CBI Newsletter* 20:1 (Fall 1997)].

The proposed program requires additional funds and an enlarged staff to pursue these initiatives. Use of the World Wide Web for the acquisition and dissemination of information should encourage active participation of the software community.

The Task Force also proposed several on-line databases to provide information on: the nature and location of major archives; the status of significant archival projects; progress reports; sources of financial support; digital preservation techniques; and publishing opportunities.

The proposed multi-year action program is described more fully in the "Software Task Force Final Report," which is available on-line at the CBI web page:

<http://www.cbi.umn.edu>



Glaser is CBF President



George Glaser was elected the new president of the Charles Babbage Foundation at the foundation board meeting in Berkeley on November 7th, replacing John Carlson, who stepped down this year.

Glaser is a graduate of the University of Notre Dame in electrical engineering, and studied business administration at the University of New Mexico.

He was an Aviation Electronics Officer with the U.S. Navy prior to beginning his consulting career with McKinsey & Company in 1961.

Glaser served as the Chair and President of the American Federation of Information Processing Societies (AFIPS) and as Board Chair of the National Computer Conference. He was also the U.S. Delegate to the General Assembly of the International Federation for Information Processing.

Glaser founded Centigram Corporation, a supplier of voice recognition equipment. He is now a consultant to top management in the financial services, information systems, electronics, and semiconductor industries on starting up

Continued on page 2

Trustees Convene

Trustees of the Charles Babbage Foundation met in Berkeley, California on Saturday, November 7th. George Glaser presented the Final Report of the Software Task Force. The Trustees recommended the development and maintenance of an historical dictionary of software to begin a sustained effort to support this field of study.

The University of California Library and School of Information Management Sciences joined the Berkeley Roundtable on International Economics in hosting this year's meeting, including a splendid dinner at the University Faculty Club.

An informal reception at the San Francisco home of Erwin Tomash and dinner at the Embarcadero Center completed the festivities, the first held on the West Coast for some time. CBF Chair Jim Cortada is seeking a similar venue for next year's meeting. □

Glaser...

Continued from page 1

new ventures, product introduction, and other major management projects.

Most recently Glaser chaired the CBF Software Task Force. □

CHARLES BABBAGE INSTITUTE NEWSLETTER

The Charles Babbage Institute, Center for the History of Computing, is sponsored by the University of Minnesota and the information processing community.

Charles Babbage Institute Newsletter is a publication of the Charles Babbage Institute, University of Minnesota, 103 Walter Library, 117 Pleasant Street S. E., Minneapolis, MN 55455 USA. The Newsletter reports on Institute activities and other developments in the history of information processing. Permission to copy without fee all or part of this material is granted provided that the source is cited and a copy of the publication containing the copied material is sent to the Institute.

©Charles Babbage Institute.

CBI staff may be reached by
e-mail: sec@itdean.umn.edu
Telephone: (612) 624-5050
Fax: (612) 625-8054
WWW Page:

<http://www.cbi.umn.edu>

Recent Publications

Abbate, Janet. *Inventing the Internet* (Cambridge: MIT Press, 1999).

Backus, John. "The History of Fortran I, II, and III" *IEEE Annals of the History of Computing* 20:4 (Oct.-Dec., 1998) 68-78.

Bromley, Allan G. "Charles Babbage's Analytical Engine, 1838" *IEEE Annals of the History of Computing* 20:4 (Oct.-Dec., 1998) 29-45.

Campbell-Kelly, Martin. "Programming the EDSAC: Early Programming Activity at the University of Cambridge" *IEEE Annals of the History of Computing* 20:4 (Oct.-Dec., 1998) 46-67.

Cleaver, Harry M. "The Zapatista Effect: The Internet and the Rise of an Alternative Political Fabric" *Journal of International Affairs* 51:2 (Spring, 1998) 621-640.

Eckert, J. P., Jr. "A Survey of Digital Computer Memory Systems" *IEEE Annals of the History of Computing* 20:4 (Oct.-Dec., 1998) 15-28.

Ferry, Steven. *The Building of Microsoft* (Mankato, MN: Smart Apple Media, 1999).

Foreman, Michael. *Bill Gates, Software Billionaire* (Parsippany, NJ: Crestwood House, 1999).

Gates, Bill. *Bill Gates Speaks: Insight From the World's Greatest Entrepreneur* (New York: John Wiley, 1998).

Hiltzik, Michael A. *Dealers of Lightning: Xerox PARC and the Dawn of the Computer Age* (New York: Harper-Business, 1999).

Jefferis, David. *Cyber Space: Virtual Reality and the World Wide Web* (New York: Crabtree Pub., 1999).

Kidwell, Peggy Aldrich. "Stalking the Elusive Computer Bug" *IEEE Annals of the History of Computing* 20:4 (Oct.-Dec., 1998) 5-9.

Molina, Alfonso. "The Nature of Failure in a Technological Initiative: The Case of the Europrocessor" *Technological Analysis and Strategic Management* 10:1 (Mar., 1998) 23-40.

Nye, David E. "Shaping Communication Networks: Telegraph, Telephone, Computer" *Social Research* 64 (Fall, 1997) 1067-1091.

Siaroff, Alan and Lee Clement. "The State and Industrial Followers: Japanese Versus French Computer Strategy, 1960s-

Info Scientists Probe Historical Development

The Conference on the History and Heritage of Science Information Systems brought together historians of chemistry and computing with the postwar generation of information scientists in Pittsburgh on October 23-25, 1998. The result was a photogenic reaction that shed light on both groups.

CBI Trustee Thomas Hughes presented "Federal Funding of an Information Revolution," a summary of his recent federal study and of his new book, *Rescuing Prometheus*.

Professor Bruce Lewenstein explored the richness of scientific communication in the case of Cold Fusion.

Director Bob Seidel revealed results of his study of information technology in Secret Scientific Communities.

Mark Bowles, 1997-8 Tomash Fellow, described the conflicts over information retrieval systems at mid-century.

The appearance of the first volume of a series of historical studies on the information sciences was announced by Arnold Thackray, during the closing session of the congress. The papers presented in Pittsburgh will constitute the next. The Chemical Heritage Foundation and the American Society of Information Scientists have launched a new field of inquiry. □

1980s" *Journal of Public Policy* 17 (Jan.-Apr., 1997) 31-61.

Schiller, Dan. *Digital Capitalism: Networking the Global Market System* (Cambridge: MIT Press, 1999).

Spencer, Donald D. *Great Men and Women of Computing*, 2nd ed. (Ormond Beach, FL: Camelot, 1999).

Stiroh, Kevin J. "Computers and Input Substitution" *Economic Inquiry* 36:2 (April, 1998) 175-191.

Williams, Michael R. (comp.) "The 'Last Word' on Charles Babbage" *IEEE Annals of the History of Computing* 20:4 (Oct.-Dec., 1998) 10-14.

Wilson, Mike. *Karisuma: The Difference Between God and Larry Ellison* (Tokyo: Shohan, 1998).

Woog, Adam. *Bill Gates* (San Diego: Lucent Books, 1999). □

Join the Friends of the Charles Babbage Institute

The Charles Babbage Institute (CBI) is the only academic research center dedicated to the history of information processing. In addition to publishing the *CBI Newsletter*, it conducts historical research to identify and interpret significant episodes in the history of information processing and its impact on society. CBI also seeks important collections of documents relating to the history of computing, and interviews with key individuals in the development of computers and information processing.

Support Collections

CBI's large collection of historical materials provides the raw materials of future history. It is used by historians around the world. In addition to the records of computer scientists, industrial organizations, and professional associations, it includes more than 100,000 images and interviews with 300 computer pioneers of the information processing field.

CBI has led the development of

methods in the field, encouraging its documentation in industry and academe and publishing the results of national surveys and methodological research in the study of large high-technology firms. It is also investigating methods of capturing electronic archives, such as e-mail and data files.

Your donation will help us preserve the records of the field, an ever-growing repository of information of interest to business historians, historians of science and technology, and other students of the information age.

Support Training

CBI awards the Adelle and Erwin Tomash Fellowship in the History of Information Processing to scholars interested in the field. Its recipients have become leading contributors to the history of computing. Your donation will help sustain this program of support in graduate education.

Support Publication

CBI has published a collection of rare

monographs, conference proceedings, manuals, government reports and books that help document the history of information processing and are of considerable interest to scholars.

CBI's Newsletter provides information about current activities in the field, bibliographies, and finding aids, many of which are available on the Internet as well as in hard copy.

Become a Friend

You can join others who make an important contribution to CBI activities by enrolling in one of the categories listed below. Your contribution is tax exempt in the United States, and your firm may match it.

Your support can make an important contribution to the understanding of a dynamic field whose history needs to be captured before it is lost. Please fill out the attached form and join our Friends today.

Friends receive discounts on CBI publications and a free subscription to *Annals of the History of Computing*.

I would like to join the "Friends of CBI." I enclose my check for the category indicated, made payable to the *Charles Babbage Foundation*.

ANNUAL MEMBERSHIPS

_____ Patron \$2000 donation
_____ Sponsor \$1000 donation
_____ Associate \$500 donation
_____ Colleague \$250 donation
_____ Friend \$100 donation

LIFETIME MEMBERSHIPS

_____ Founder's Circle \$25,000
_____ Benefactor \$10,000

Name _____

Address _____

City _____ State _____ ZIP _____

Mail to: Charles Babbage Institute, University of Minnesota, 103 Walter Library, 117 Pleasant Street SE, Minneapolis, MN 55455 USA

CBI Archivist Sought

The Charles Babbage Institute seeks an Archivist with a Master's degree in archival administration or ALA-accredited M.L.S.

Desired qualifications include: demonstrated knowledge of acquisition, description, preservation and appraisal of archival materials; demonstrated knowledge of digital information technology; strong oral and written communication skills; strong interpersonal skills; supervisory experience; and background relating to the history of technology and science.

Responsibilities include: policy-making; management of daily operations; supervising an assistant and student employees; maintaining liaisons with other archival and special collections units; overseeing the acquisition, appraisal, description, arrangement, and preservation of archives; maintaining physical and bibliographical control of resources in digital and print formats; providing reference and instructional services; and grant development.

The position is a full-time, 12 month, academic/professional appointment with

the title of Assistant or Associate Librarian, and will report to the Team Leader for Collection Development and Management for the University Libraries at the University of Minnesota.

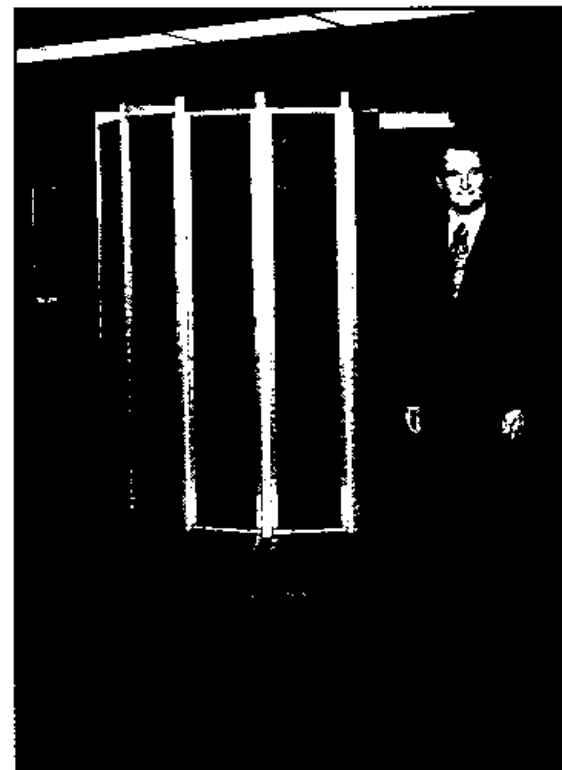
Salary will be commensurate with experience, but will not be less than \$35,000. A full position description is available at <http://www.umn.edu/ohr/employ.html> (see Acad./Prof.-Job # UL 86).

Applicants should send a letter, resume, and three professional references to: Linda DeBeau-Melting, Libraries Human Resources Office, University Libraries, 499 Wilson Library, 309 19th Ave. South, Minneapolis, MN 55455-0414



The XXIst International Congress of History of Science will be held in Mexico City from July 8-14, 2001. The theme will be Science and Cultural Diversity. For further information contact: XXIst International Congress of History of Science, Apartado Postal 21-873, 04000 Mexico, D.F., Mexico. (www.cilea.it/history/DHS).

Twenty-Five Years Ago



In 1973, Seymour Cray left Control Data and formed Cray Research. It shipped its first computer to Los Alamos Scientific Laboratory in 1976. Cray is pictured here with the Cray-1, which contained 200,000 integrated circuits and performed 100 million floating operations per second. □

CHARLES BABBAGE INSTITUTE NEWSLETTER

Charles Babbage Institute
University of Minnesota
103 Walter Library
117 Pleasant Street S. E.
Minneapolis, MN 55455, U.S.A.

Return Service Requested

Nonprofit Org.
U.S. Postage
PAID
Minneapolis, MN
Permit No. 155