**Northeastern University**

**College of Computer Science**
**Professor Karl J. Lieberherr**

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| TO: | Sabbatical Leave Committee |
| FROM: | Professor Karl J. Lieberherr |
| DATE: | October 16, 1998 |
| SUBJECT: | Sabbatical Leave Proposal |

1. Statement of Purpose. I would like to apply for a half-year sabbatical leave at full salary for academic year 1999-2000 (tentatively the second half). There is a chance that I might get enough funding to justify a full year sabbatical at half-pay.
   My goals for the sabbatical are
   - to push the Adaptive Programming technology (also known as Demeter technology), a promissing technology developed in the College of Computer Science, into wider use through publications, tools and collaborations with industry.
   - to develop the Adaptive Programming technology further and to attract more funding for this work.
   - to explore new areas of research, and to look into the current practice of software development.

   The results achieved during my sabbatical will flow both into my teaching and subsequent research activities.
2. A detailed description of my planned activities.
   I plan to spend some time in Europe to work with various collaborators: Collaboration with the research group at the University of Berne, in component-based software development (Professor Nierstrasz). Collaboration with the research group at ETH Lausanne (Professor Guerroui). Collaboration with Professor Thomas Gross at ETH Zurich. Continued collaboration with Mira Mezini from the University of Siegen. Collaboration with the research lab of UBS in Zurich.
   I have recently visited IBM Yorktown Heights (Harold Ossher, Bill Harrison) to start a collaboration in applying Adaptive Programming to Subject-Oriented Programming.
3. My curriculum vitae including my list of publications is included.
4. I don't have a final report handy for the 92-93 sabbatical. However, my

Director Center for Software Sciences
Northeastern University
Cullinane Hall,Boston, Massachusetts 02115
(617) 373-2077, fax: (617) 373-5121
Internet: lieber@CCS.neu.EDU

annual report for 93 at http://www.ccs.neu.edu/home/lieber/annual-reports.html describes our activities back then. There is a strong connection between the two sabbaticals: both are related to promoting and enhancing Adaptive Programming technology.

5. This is my second request for a sabbatical and it will be my fifteenth year at Northeastern. My second sabbatical was postponed by one year at the request of the College.