

Department of Computer and Information Sciences
2001-2002
Annual Report

The 2001-2002 academic year has been a challenging yet fruitful year for the computer science department. There were 3 major tasks to be undertaken. First and foremost, we were able to successfully implement the split of the department of Mathematics and Computer science into *Computer and Information Sciences* and *Mathematical Sciences*. Next we were able to successfully integrate five new faculty members into the department. Finally we were able to implement the functional reorganization of the newly developed Computer Science department. As a result, the department has formed ten new committees, appointed 3 directors and an Associate Chair. I am happy to report that this reorganization has allowed the department to accomplish much in its first year of existence.

The **Functional** and **Personnel** organization charts for the department can be found at
http://www.cs.iusb.edu/pdf/Dept_Organization_Chart_Functions.pdf
and
http://www.cs.iusb.edu/pdf/Dept_Organization_Chart_Personnel.pdf

In addition to the normal departmental activities, a number of new initiatives were undertaken by our faculty that are worth mentioning. Below I will provide an abbreviated list of these initiatives and activities:

- The graduate director, and the graduate committee have been instrumental in obtaining re-approval of the new graduate program in Applied Mathematics and Computer Science. Twelve students have already been admitted and will begin their studies in the Fall 2002.
- The Informatics committee has been working hard to develop proposals for a Minor and Bachelor of Science in Informatics. The minor in Informatics has been approved by the School of Informatics, LAS curriculum committee and awaits Senate approval. (This new program will result in an additional \$300,000 base budget increase for IUSB)
- The Associate Chair and the curriculum committee have been responsible for major review and modification of the Computer Science curriculum in light of the new recommendations of the ACM/IEEE task force.
- The library committee was instrumental in improving the Computer Science library holding.
- Development of 3 successful grant proposals by our faculty.
- Presentations and Professional activities by our faculty.
- Obtaining SMART grant for mentored undergraduate summer research.
- Submitting grant proposal to Honeywell for \$34,000 to implement a new applied research laboratory at IUSB.
- Developing new undergraduate and graduate courses. (C151, B424/B524, A107, A150, A340)
- Creating a 16 node Beowulf cluster for applied research projects.
- Significant community outreach, recruiting, retention and advising initiative by the faculty and staff.
- A productive year for the Student Chapter of the ACM. Three presentations by the resident faculty and staff members at the Argon National Laboratory.

1) Creation of the new department:

- Equitable and successful separation from Mathematics (Offices, budget, secretarial support)
- Successful integration of new faculty into the department. Retention of existing faculty.
- Successful reorganization of the department into ten functional areas, each of which is overseen by a committee of faculty.
- Salary equity adjustment for computer science faculty.
- Improved library holding

2) The new Graduate Programs:

- Approval and re-approval of the new graduate program in Applied Mathematics and Computer Science. Preparation for admitting new graduate students.
- Establishing and maintaining a collegial and fair relationship with B&E. Offering of graduate courses for MS-MIT (A504, A505, A510, A515).
- Development of new graduate level certificate program (Certificate in Technology for Administration).

3) Informatics Program:

- Development of the proposal for Minor and Bachelor of Science in Informatics. Approval of the minor in Informatics. (Resulting in an additional 300K base budget for IUSB)

4) Technology Classroom:

- Creation of a new computer science friendly classroom in the Northside Hall (NS203).

5) Curriculum Development/Refinement:

- Review and modification of the CS curriculum in light of the new recommendations of the ACM/IEEE.
- Developing new undergraduate and graduate courses. (C151, B424/B524)
- Development and offering of new courses for non-majors. (A107, A150, A340)

6) Research and Teaching Efforts:

- Creation of a 16 node Beowulf cluster for applied research projects.
- Development of 3 successful grant proposals by CS faculty. (Wolfer, Surma, Vrajitoru, Scheessele)
- Presentation and Professional activities (Conference attendance and presentations by Surma, Vrajitoru, Scheessele, Schwartz)
- SMART grant for mentored undergraduate summer research. (Wolfer, Ratkiewicz)
- Grant proposal to Honeywell for \$34,000

7) Community Outreach / Recruiting / Retention / Advising :

- Development of community outreach proposals.
- Company visits, high school visits, and other community outreach activities.
- Increased number of declared computer science majors. (200 to 250)
- Successful implementation of the Direct Admit initiative.
- Substantial effort to improve the external departmental image (Web pages, newsletter, flyers, posters, library displays, high school visits, company visits.)

8) ACM Club Activities:

- A productive year for the Student Chapter of the ACM. (Three presentations). Two by resident faculty and one by a staff member at the Argon National Laboratory. Acquiring new office space for the ACM Club in DW Hall.