FACULTY SERVICE TO HOPE COLLEGE

NAME Herbert L. Dershem

A.   TEACHING AND ADVISING:
   1. Courses Taught and Enrollment
        (Attach report from Registrar's Office)
   2. Supplementary Notes
   During both semesters, I taught a new course under the 295 number. This course is intended to be a core course in the computer science curriculum and includes the software development process and an overall view of the field of computer science. It will eventually include a new feature in the curriculum called the sophomore seminar.

B.   SCHOLARLY AND PROFESSIONAL ACTIVITY

   1.   Scholarly Work and/or General Professional Development (including papers presented, publications, performances, recitals, exhibitions, and work in progress)
         Publications:
   "Animation of Java Linked Lists", Dershem, Herbert L. and McFall, Ryan L. and Uti, Ngozi, Proceedings of the 2002 SIGCSE Technical Symposium on Computer Science Education. This paper was recognized as one of the "Ten Best Papers" of the conference.
   "A Linked List Prototype for the Visual Representation of Abstract Data Types", Dershem, Herbert L. and McFall, Ryan L. and Uti, Ngozi, The Interactive Multimedia Electronic Journal of Computer-Enhanced Learning. (http://imej.wfu.edu)

   Other Scholarly Activity
   - *Reviewed 5 papers for FIE 2002, 7 papers for NECC 2002, 5 papers for CCSC Eastern Conference 2002, 1 paper for CCSC Midwest Conference 2002, 1 paper for the Computer Science Education Journal, 3 papers for SIGCSE 2003, 3 panel proposals for SIGCSE 2003, and 1 textbook manuscript.*
   - *Coordinator of Consulting for Math/CS Division of Council for Undergraduate Research.*
   - *Speaker Chair of Midwest Small College Computing Conference 2002.*
   - *External reviewer of promotion candidacy for Hiram College.*
   - *External Reviewer, Computer Science Department, Franklin College (Feb 2002), St. Olaf College (Mar 2002), and Loras College (Mar 2002).*
   - *Panelist, NSF Research Experiences for Undergraduates panel, December, 2002.*
   - *Member of Workshop Review Committee for the SIGCSE 2003 Conference, reviewed 47 workshop proposals.*
   - *Referee for two National Science Foundation grant proposals.*
   - *Facilitator for Math and Computer Science, CUR Proposal Writing Workshop, Juniata College, July, 2002.*
   - *Invited attendee, Workshop on Computer Forensics, University of Idaho, September, 2002.*

   2.   Grant Proposals Submitted (if funded, specify amount and date/period of the grant)
   - *Submitted proposal titled "DEM: The Merits of MERiCS: Building Confidence and Community Through Mentored Early Research in Computer Science" to Program for Gender Equity at National Science Foundation. Co-PIs were Sam Rebelsky at Grinnell, Susan Fox at Macalester, and Mike O'Donnell at the University of Chicago. This proposal for $671,030 was to encourage women to enter computer science through undergraduate research participation. It was not funded.*

- *Submitted supplemental budget request for Hope College NSF REU program for $20,000. This was funded.*

C.   INTERNAL SERVICE

1. <u>Involvement with Students Outside the Classroom, e.g., Directing a Play, Recitals, Coaching, or Sponsoring a Club</u> (List activity and number of students engaged with you in this activity)
    - *Faculty advisor for student ACM chapter and XOR honorary society (Fall only). ACM is a professional society, and XOR is our local computer science honorary society.*
    - *Faculty Advisor for Alpha Kappa Pi fraternity.*
    - *Supervised two academic year and one summer undergraduate research projects. Work of summer student has already resulted in two publications and an invitation to submit a Poster in the International Undergraduate Research Competition. His work was also awarded a "Best Student Research" award at the CCSC Midwest Conference.*
    - *Coached and accompanied team of three students to participate in a programming competition at Taylor University, April, 2002.*
    - *Organized and arranged funding for six female computer science majors to attend the Grace Hopper Celebration of Women in Computing at Vancouver, BC in October.*

2. <u>Administrative Service, Board and Committee and/or Departmental Assignments</u> (List)
    - *Chair, Computer Science Department*
    - *Department Assignments: Admissions liaison, newsletter editor.*
    - *Member, Distinguished Alumni Award selection committee, 2002.*
    - *Member, Greek Judicial Board.*

D.   OTHER (e.g., public service, consulting, curricular/course development, lectures, seminars, and presentations to high school students or church groups)
   - *Organized, directed, and presented three sessions at the Pew Midstates Workshop for computer science faculty, November, 2002.*
   - *Pastoral Care Elder and member of nominating committee, Christ Memorial Church.*

E.   Which of your accomplishments or activities of the past year do you consider most noteworthy?
Most noteworthy was the invitation to publish my work in the Interactive Multimedia Education Journal. This is a prototype journal that is breaking new ground in the presentation of technical material.

F.   CHAIRPERSON'S SUMMARY EVALUATION

UNSATISFACTORY	FAIR	GOOD	SUPERIOR	OUTSTANDING

(On this continuum, <u>the chairperson</u> should place the letters **TA** for Teaching and Advising, **SP** for Scholarly and Professional Activity and **SE** for Service, at whatever point she/he considers appropriate.)

Department   CSCI   Term: 200208

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CRN	Subject	Cours	Sec	Enrl	Workload/Wk	Adj Workload	%Resp	Dept%	Total
80443	CSCI	225	01	16	4.00	0.00	100	100	64.00
81502	CSCI	295	01	8	0.00	3.00	100	100	24.00
81343	CSCI	363	01B	11	2.00	0.00	100	100	22.00
80449	CSCI	490	01	1	0.00	0.00	100	100	0.00
80450	CSCI	491	01	3	0.00	0.00	100	100	0.00

Sum for Instructor   110.00

Department CSCI   Term: 200201

181 Dershem   Herbert

CRN	Subject	Cours	Sec	Enrl	Workload/Wk	Adj Workload	%Resp	Dept%	Total
10701	CSCI	250	01A	20	2.00	0.00	100	100	40.00
11145	CSCI	295	01	12	0.00	3.00	100	100	36.00
11146	CSCI	385	01	13	4.00	0.00	100	100	52.00
10706	CSCI	470	01	13	2.00	0.00	100	100	26.00
10707	CSCI	490	01	1	0.00	0.00	100	100	0.00
10709	CSCI	491	01	2	0.00	0.00	100	100	0.00
						Sum for Instructor			154.00

Herbert L. Dershem
Self-Evaluation
2002

I. Teaching

My teaching was highlighted by the CSCI 295 class, which is a new course that will be introduced as a core course in the curriculum within the next year. In that course, I am using some new techniques, including extensive code reading and critiquing code of other students, the professor, and the author of the textbook.

		Preparation	Enthusiasm	Personal Interest	Overall	N
Spring 2001	CSCI 250	3.94	3.93	3.79	3.76	16
	CSCI 295	3.84	3.93	3.84	3.75	10
	CSCI 385	3.81	3.86	3.79	3.79	9
	CSCI 470	3.81	4.00	3.97	3.94	11
Fall 2001	CSCI 225					
	CSCI 295					
	CSCI 363					
	Total	3.86	3.93	3.84	3.81	104

II. Scholarship

In 2002, I relinquished my role as director of the summer undergraduate research program so that the other members of the department could have supported research assignments. I did supervise the work of one student. Both the student and I were unsupported in our work and participated on a volunteer basis. I was quite pleased with the results obtained by that student, Alexander Sherstov. Already, he has had two papers that resulted from his work accepted in peer-reviewed publications, he has won a "Best Undergraduate Research" award from a regional conference, his entry has been accepted for the "International Undergraduate Research" competition, and he has been honored as a finalist in the CRA Outstanding Computer Science Undergraduate competition.

III. Service

My service was devoted to the duties of department chair. This included more than 20 sessions and activities that I hosted for prospective students. It also included major efforts at recruiting faculty during the Spring semester and the mentoring of a new faculty member during the Fall semester..

Review of Goals for 2002

1. Resubmit proposal to the NSF-PGE program to find undergraduate research for women in computer science. This is a multi-institutional project.
This was resubmitted, but it was not funded. It was decided by the team members that we will not resubmit again, though I would like to include features of this program in future grant proposal submissions.

2. Successfully conduct summer research program and prepare results of work for dissemination.
Although my participation was interrupted this year, I was successful in the direction of the project of Alex Sherstov and though I am not a co-author on any of his papers, I am pleased to have directed his fine work.

3. Work with mathematics and engineering to submit a proposal to NSF for scholarships for minority students.
This did not occur. I hope to submit a proposal in 2003.

4. Continue to increase my experience in distance learning through my involvement with the United States Open University.
The United States Open University went out of business in 2002, so I was unable to accomplish this goal.

Goals for 2002

1. Finalize the development of the new core course for the computer science curriculum.

2. Successfully conduct summer research program and prepare results of work for dissemination.

3. Develop a new course on "Great Debates in Computer Science" with Ryan McFall and offer it in the fall.

4. Submit grant proposal for renewed funding of the Hope Computer Science REU program.

Summary Evaluation for Herb Dershem

It is a distinct honor to once again provide a perspective on the performance of Herb Dershem. Herb is the "Dean of the Chairs" in the Natural Science Division and will be stepping down from his position as Chair of the Computer Science Department at the end of this academic year. He is a Scholar, Educator, and Leader *par excellance* and an important role model for all faculty. This past year Herb's scholarship was enhanced through the publication of two articles and through the submission of a major grant proposal that the NSF did not have the wisdom to fund. Herb also served as an external consultant to four colleges, a reviewer for numerous manuscripts and agency proposals, a workshop leader and invited speaker at several conferences. He is one of the **most externally visible** faculty on our campus and does much to promote the image of Hope College through his work. Herb is an outstanding teacher and this year has been no exception, and his leadership in the Computer Science Department is exemplary, particularly his mentor of the younger faculty that he has hired. Serving as Dean with scholar/educator/leaders such as Herb Dershem is very easy indeed.

Overall I rate Herb's Teaching (T), Scholarship (SC), Service (SE) and Leadership (L) as follows:

SC__ T,SE,L__

| Poor | Fair | Good | Very Good | Excellent | Outstanding |

James M. Gentile, Dean