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June 12--16	CBMS San Francisco (Not Included)
June 18--20	Chatham Bars Inn
June 26--30	Summer Class
July 4	Boston Esplanade
July 9	Seattle Summer Research Conference
July 10--12	Manchester, England IMA Conference
July 30	Park City, Utah
July	Publick Theatre -- Much Ado about Nothing
July	Lowell Summer Music Festival -- Christine Lavin
August 8	After dinner speaker - Student Workshop
August 16--20	Boothbay Harbor -- Family Vacation
August 31	Lexington, Kentucky (Not included)
September 16	Mathematics Department Reception Endicott House
October 15--22	Eigenvalue Workshop -- Toulouse, France
November 16	Penn State
December 16	LCS Holiday Party, JFK Library

This table is filed under ~/DEPT/BIO/1995

Alan Edelman
June - December
1995



MASSACHUSETTS INSTITUTE OF TECHNOLOGY

SUMMER PROFESSIONAL PROGRAM 6.50s

A Peek at Parallel Processing from an Applications Perspective

Alan Edelman: Dept. of Mathematics and Laboratory for Computer Science, MIT

Shang-Hua Teng: Dept. of Computer Science, University of Minnesota

Robert Schreiber: NASA Ames Research Research Center

June 26 - 30, 1995

Course: 6.50s

Date: June 26 - 30, 1995

Tuition: \$1,950

CEUs: 3.0

Parallel computing has matured. Gone is the hype about how these machines would change the world and the heightened expectations that could never be fulfilled. What is emerging is a new reality: parallel computing works, but sometimes with difficulty. Nevertheless, it is currently the only way to achieve top performance on important applications.

This course, now in its second year, cuts through the promotional fluff by giving the students a broad perspective on what parallel machines are good for, what they are not good for, and how they can be used for real applications.

We begin with an overview of the current models of parallel machines and architectures explaining the ever changing trends in the industry. We focus on the myths and realities of parallel computing that are relevant for users who wish to create real applications. We will provide in-depth training on an MIT supercomputer. By completion of this course, students will be ready to solve real scientific problems on any parallel machine. A secondary focus is the analysis of parallel performance: its uses and misuses.

A special additional topic that we will cover in 1995 is a tutorial on floating point arithmetic on the technical details of the well-publicized Intel Pentium bug and on arithmetic standards.

Sample applications will include a selection from Poisson solvers, mesh generation, mesh partitioning, chemistry computations, multigrid computations, sparse matrix computation, N-body simulations, vortex methods,

finite difference computations, finite element computations, finite volume computations, and other general numerical simulations or partial differential equations. We will not presume familiarity with these methods.

TARGET AUDIENCE


Engineers and scientists performing numerically intensive computations who might currently be using vector supercomputers or fast workstations and may be wondering whether the time has come to take the plunge into parallelism. The course is valuable for any individual facing the dilemma of whether now is the time to go parallel, and for those who have decided that it is. The course is also appropriate for individuals who wish an introduction to the applications listed above.

ABOUT THE COURSE

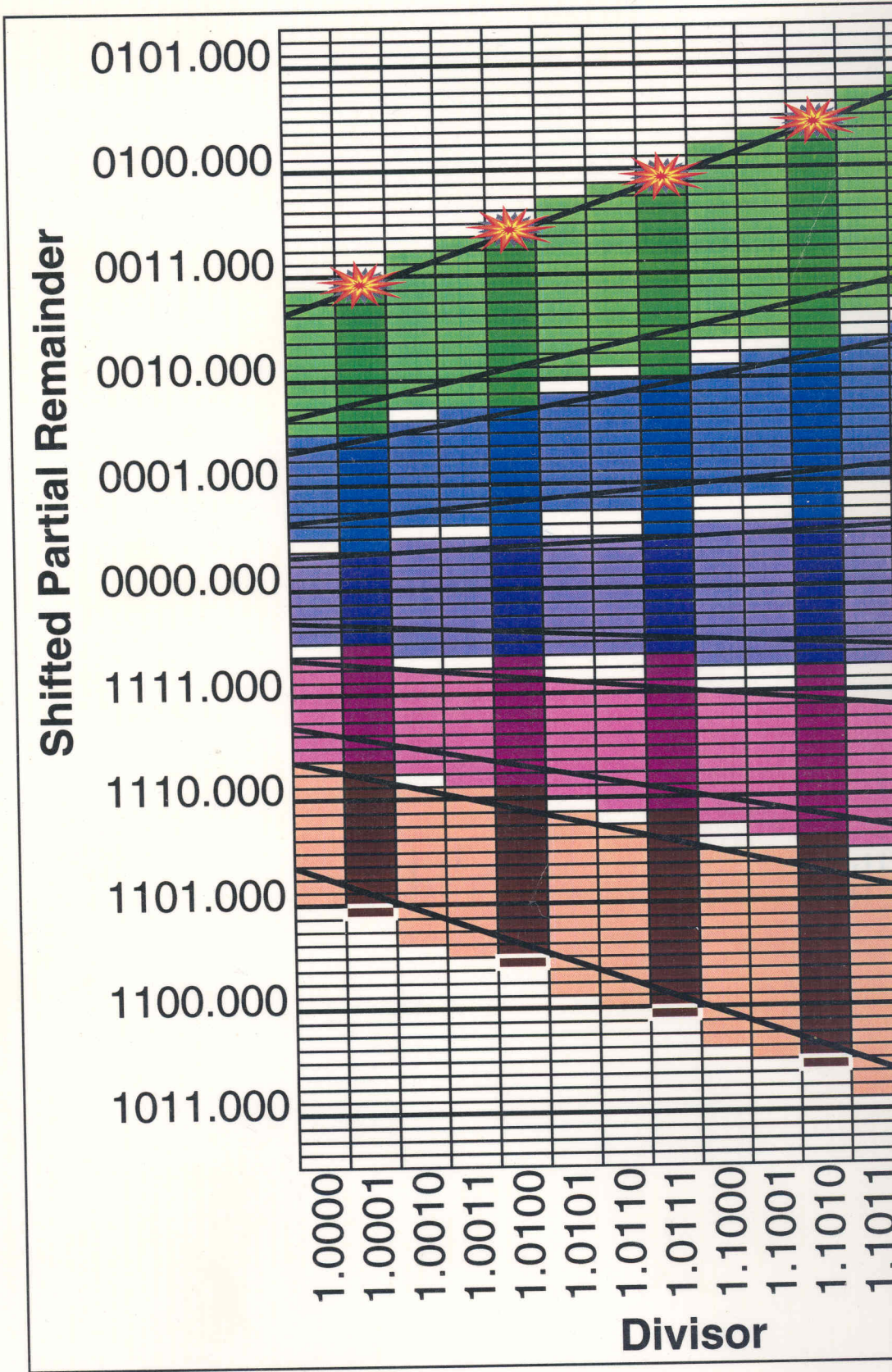
The course is a condensed version of MIT's graduate level course 18.337 on Parallel Scientific Computing, first introduced into the curriculum in 1994 and taught again in 1995, covering the latest developments in this rapidly changing field. One component of the course is the lectures that introduce concepts, techniques, and algorithms. An equally important component is the laboratories designed to bridge the gap between theory and practice. The laboratory is the essential medium that allows students to complete the course with the skills needed to solve real world problems.

BOSTON
 TORONTO BLUE JAYS
 WEDNESDAY JUNE 28, 1995
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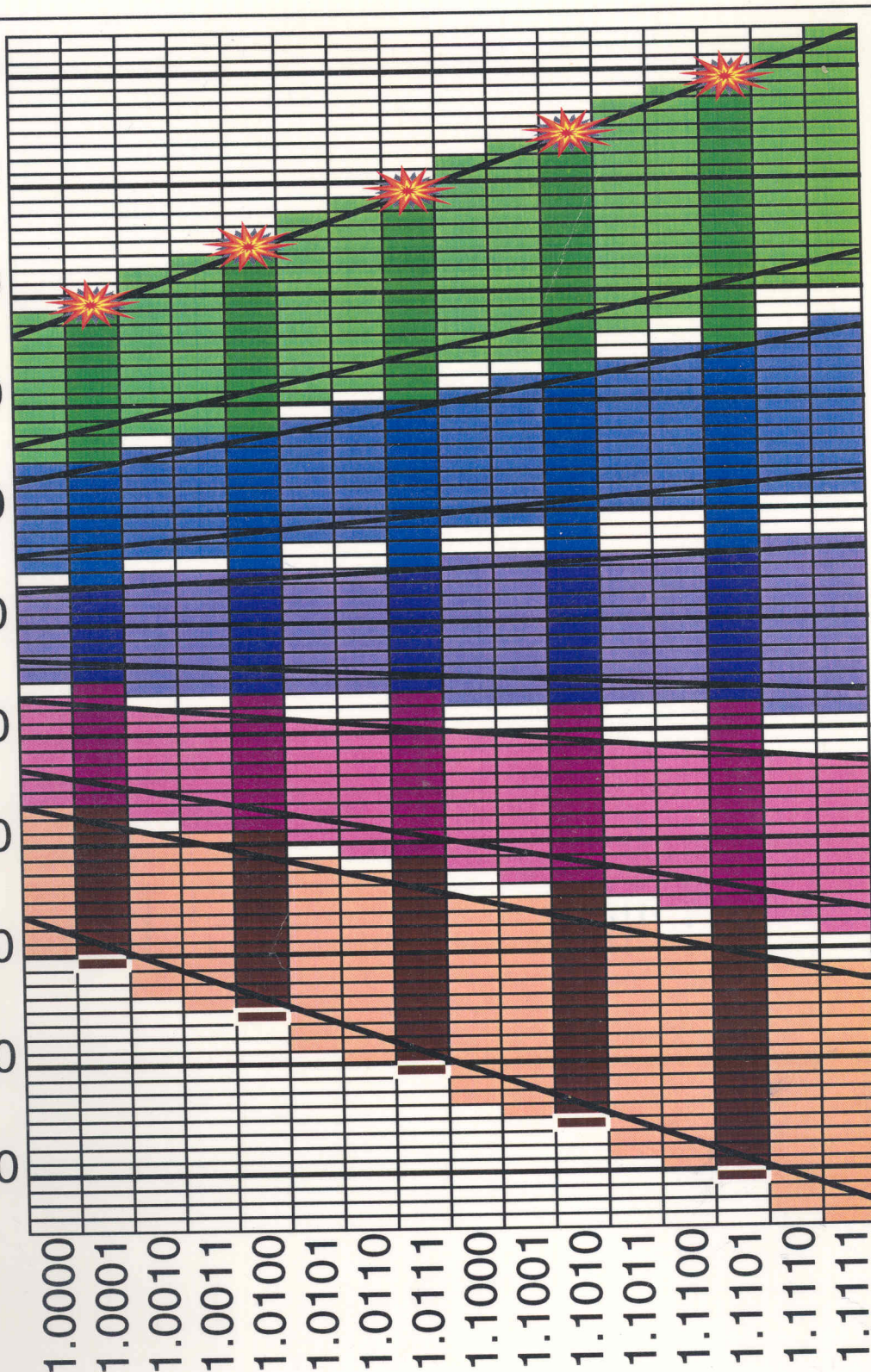
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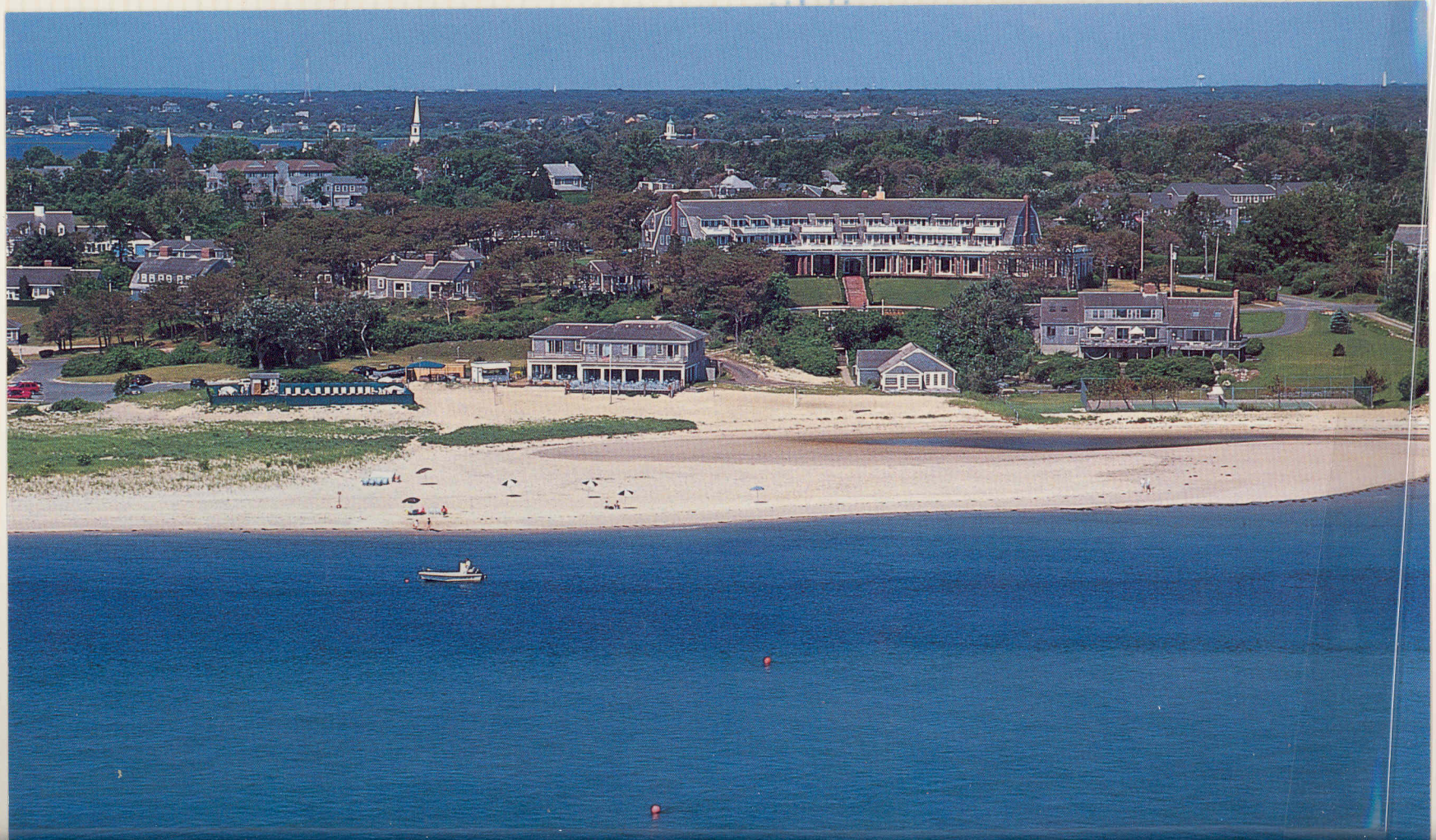


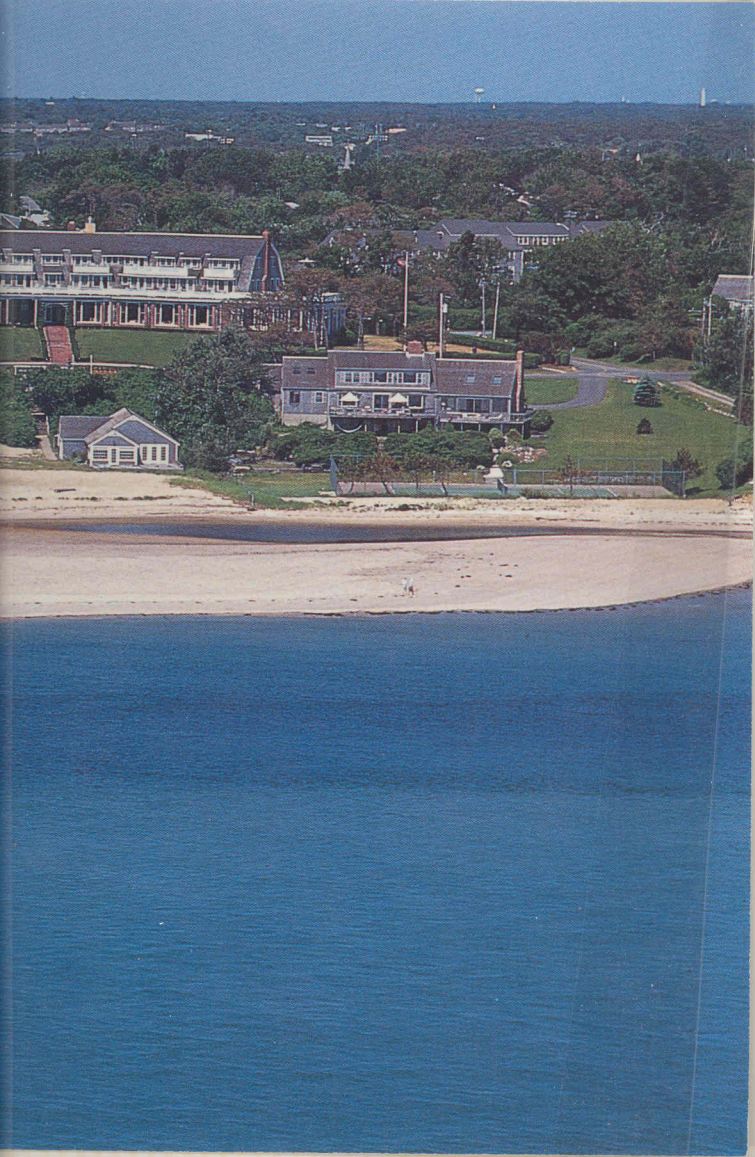
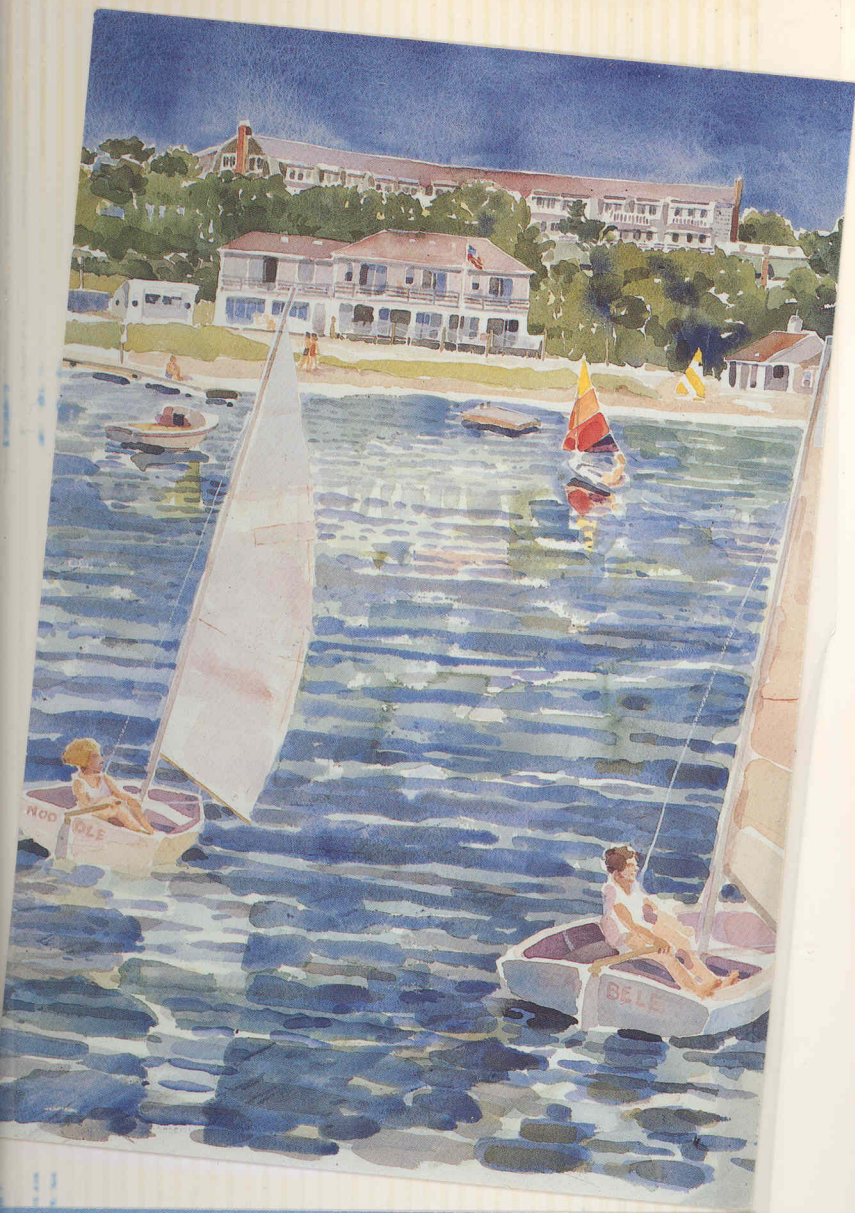
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BOSTON HARBO

A map of Boston Harbor and surrounding areas, including Quincy Bay and Hingham Bay. A large, stylized red star graphic is overlaid on the map. The star has a white center and is surrounded by red and blue wavy lines. Several red starburst graphics, resembling fireworks, are scattered across the map. The text 'BOSTON HARBOR' is prominently displayed in the center of the map.

JUNE 29-JULY 4, 1995

Fireworks Skyconcert Friday June 30
Chowderfest Sunday, July 2

THE GREATER BOSTON CONVENTION & VISITORS BUREAU, INC.

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July
4th

Complimentary Program

On The Esplanade

B O S T O N ★ 1 9 9



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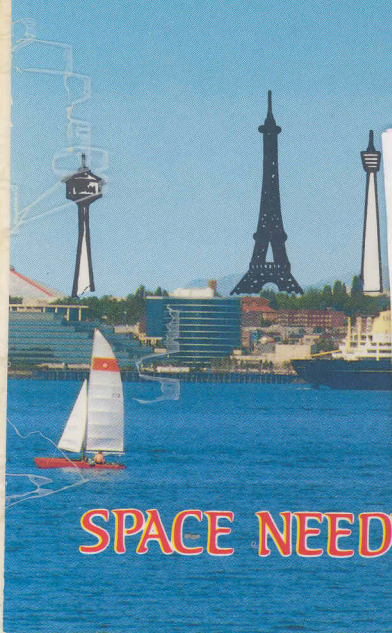
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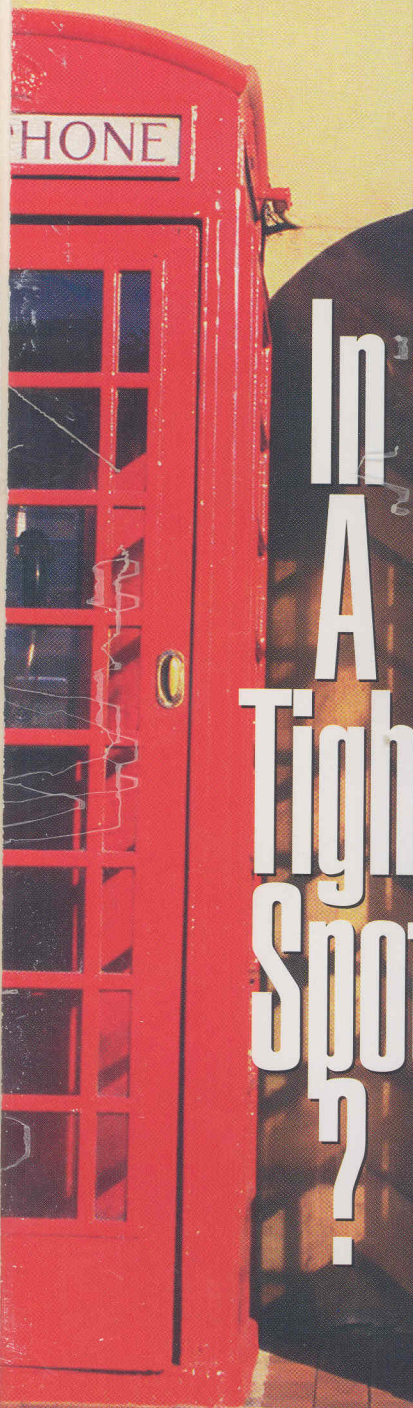
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CALGARY TOWER Calgary, Canada 626 feet high 191 Metres	EIFFEL TOWER Paris, France 984 feet high 289 Metres	STUTTGART TOWER Stuttgart, West Germany 702 feet high 214 Metres	MOSCOW TOWER Moscow, U.S.S.R. 1,722 feet high 525 Metres	SPACE NEEDLE Seattle, U.S.A. 610 feet high 186 Metres	POST OFFICE TOWER London, England 620 feet high 189 Metres	CN TOWER Toronto, Canada 1,800 feet high 549 Metres	TOKYO TOWER Tokyo, Japan 1,024 feet high 312 Metres	EUROMAST Rotterdam, Holland 406 feet high 125 Metres
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AMS-IMS-SIAM SUMMER RESEARCH CONFERENCE

LINEAR AND NONLINEAR CONJUGATE GRADIENT-RELATED METHODS

University of Washington, Seattle. July 9-13, 1995.
Loyce Adams, Larry Nazareth (Co-chairs)

The schedule of speakers follows, along with a list of titles (all by speaker). In keeping with the informal organizational style of research conferences, there may be some fine tuning of the program at the meeting, with any alterations being announced each morning as the talks begin. In particular, the late afternoon sessions after the luncheon on Mon, Wed or Thur could be extended to accommodate last-minute presentations, or alternatively (and preferably) an evening session held one day for short, say 15 min, presentations.

All talks will be held in Johnson Hall, Room 064. See the information leaflet that came with your invitation letter from AMS for further details on conference facilities. A campus map is provided on the registration card. The summer conference housing information leaflet sent by the Student Services Office.

Day 1 (Sunday, July 9):

8:55	Welcome and Introductory Comments (Adams)
9:00-10:00	O'Leary
10:00-10:30	Coffee
10:30-11:30	Nocedal
11:30- 1:30	Lunch
1:30- 2:30	Edelman
2:30- 3:00	Coffee
3:00- 3:30	Smith
3:30- 4:30	Young (D.P.)

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KEY TO MAP SYMBOLS

- | | |
|------------------------|----------------------------------|
| Building | Campus entrance |
| Path/Sidewalk | Bridge/overpass |
| Road | Fence |
| Campus parking area | Campus area |
| Public parking area | Bank Machine |
| Emergency Telephone | Pavement, brick, gravel |
| Pay Telephone | Branch library |
| Automatic parking gate | Road Gate |
| Bus route | Gatehouse (with emergency phone) |
| Bus stop | Construction Area |

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Map compiled, designed and drafted in cooperation between Physical Plant and the Department of Geography, August, 1971
REVISED August, 1993 Sherman

Copies of Mobility Limitation Routes and Building Access Map Available at Gate Houses and Disabled Student Services Office, Schmitz Hall

THE UN
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Campus



- SYMBOLS**
- Campus entrance
 - Bridge/overpass
 - Fence
 - Campus area
 - Bank Machine
 - Pavement, brick, gravel
 - Branch library
 - Road Gate
 - Gatehouse (with emergency phone)
 - Construction Area
- 900 Feet
275 Meters

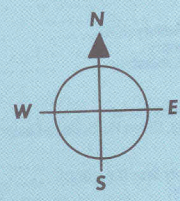
Map compiled, designed and drafted in cooperation between Physical Plant and the Department of Geography, August, 1971
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Copies of Mobility Limitation Routes and Building Access Map Available at Gate Houses and Disabled Student Services Office, Schmitz Hall

THE UNIVERSITY OF WASHINGTON

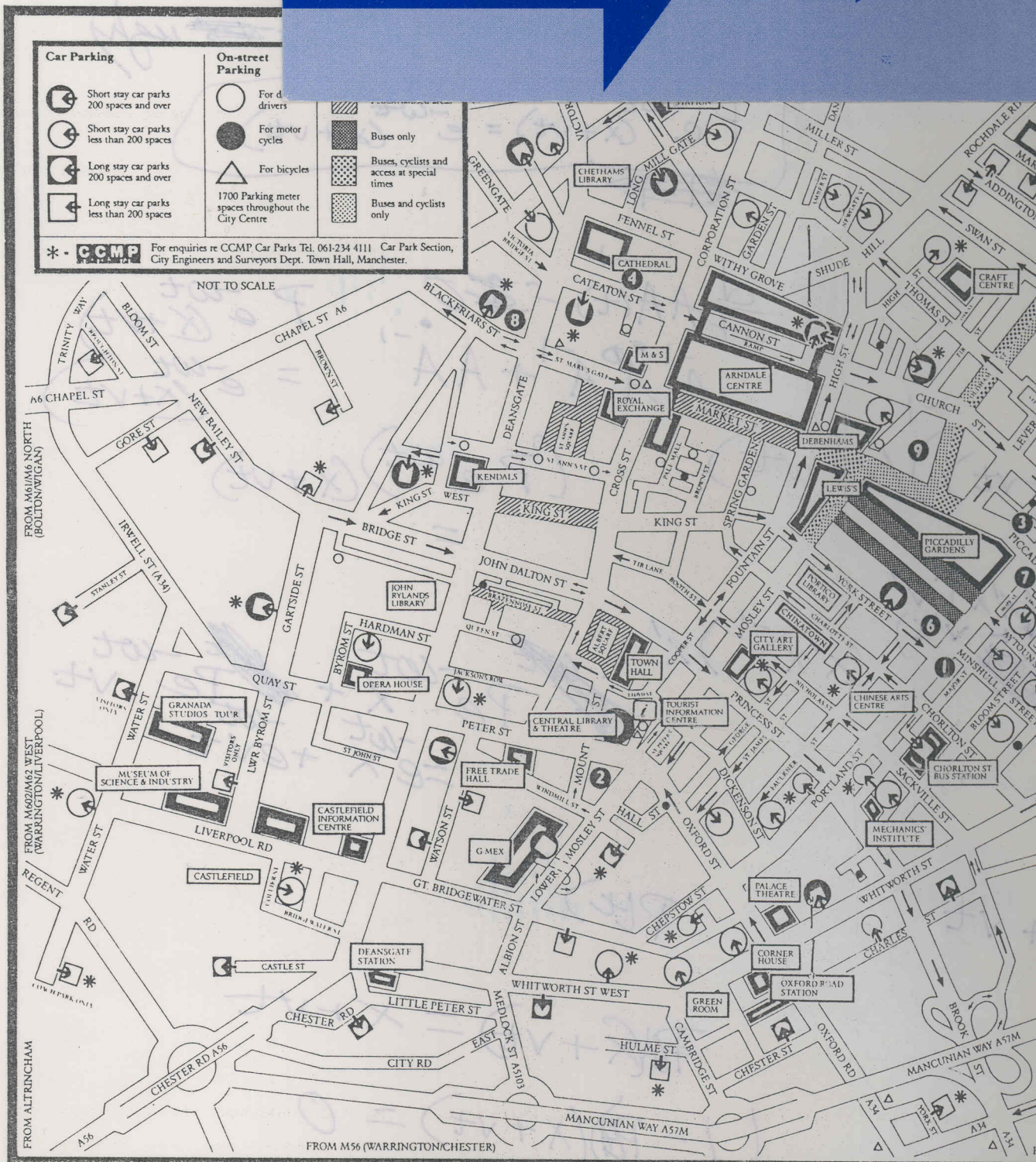
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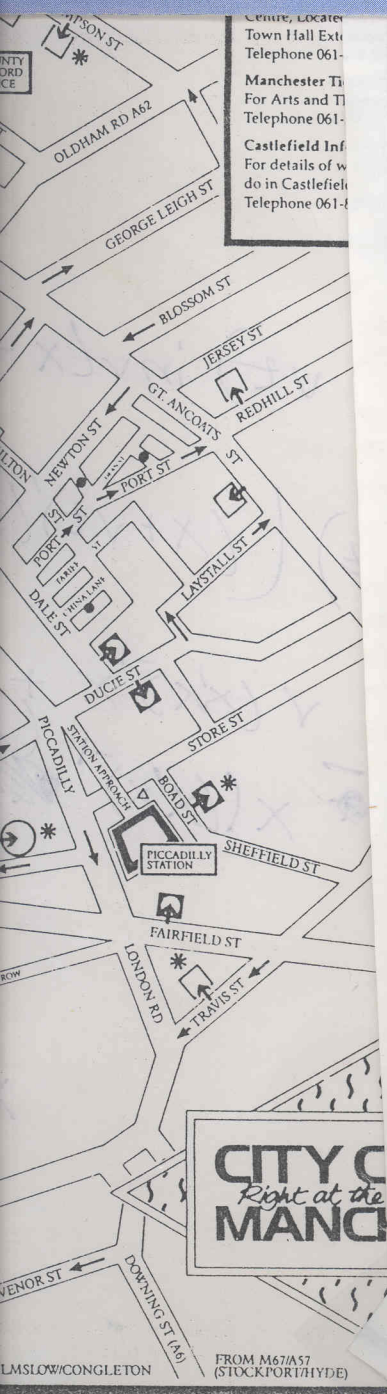


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A brief guide to the site



IMPORTANT DEADLINES

Participant Info Sheet/Prereg Form to AMS: **May 24**

Housing reservations to the University of Washington on:

1. Smooth dynamical systems: **June 2**
2. Hamiltonian dynamics and celestial mechanics: **June 2**
3. Matroid theory: **June 9**
4. Linear and nonlinear CG-related methods: **June 16**
5. Finsler geometry: **June 23**
6. Analysis of multi-fluid flows: **June 30**
7. Electrical impedance tomography: **June 30**

IMPORTANT PHONE NUMBERS

AMS-IMS-SIAM Conference Office	TBA
Chamber of Commerce	206-461-7200
AMS Headquarters Office	800-321-4267
Mathematics Library, Padelford Hall	206-543-7296
Police on Campus (Emergency)	9-911
Univ of Washington, McCarty Hall	206-543-5527
University of Washington (Main)	206-543-2100
Mathematics Department	206-543-1150

AMS-IMS-SIAM CONFERENCE OFFICE

The AMS Conference Office will be located in Room 119 in Johnson Hall. The office hours are:
Saturday: 6:00 p.m. to 8:00 p.m.
Sunday–Thursday: 8:00 a.m.–noon and 1:00 p.m.– 5 p.m.

Travel Expense Vouchers: Participants who have been informed by the Associate Executive Director of the American Mathematical Society that they will be supported for their travel/subsistence should note the following procedure for reimbursement of expenses.

1. Participants will be required to fill out an expense voucher at the conference and return it to the conference coordinator, between Monday and Wednesday morning or prior to leaving the conference. The expense vouchers will be processed at AMS Headquarters and checks will be mailed to the address indicated on the voucher eight weeks after the conference has ended. Checks cannot be produced at the conference.
2. To comply with NSF regulations, any expenses for which reimbursement is requested must be documented by copies of receipts. Conference fees cannot be reim-

TANT DEADLINES

Prereg Form to AMS: **May 24**
to the University of Washington on:
Systems: **June 2**
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CG-related methods: **June 16**
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CONFERENCE OFFICE

Office will be located in Room
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IMA Conference on Linear Algebra and Its Applications 10-12 July, 1995 University of Manchester Final program

Note on Duration of Talks

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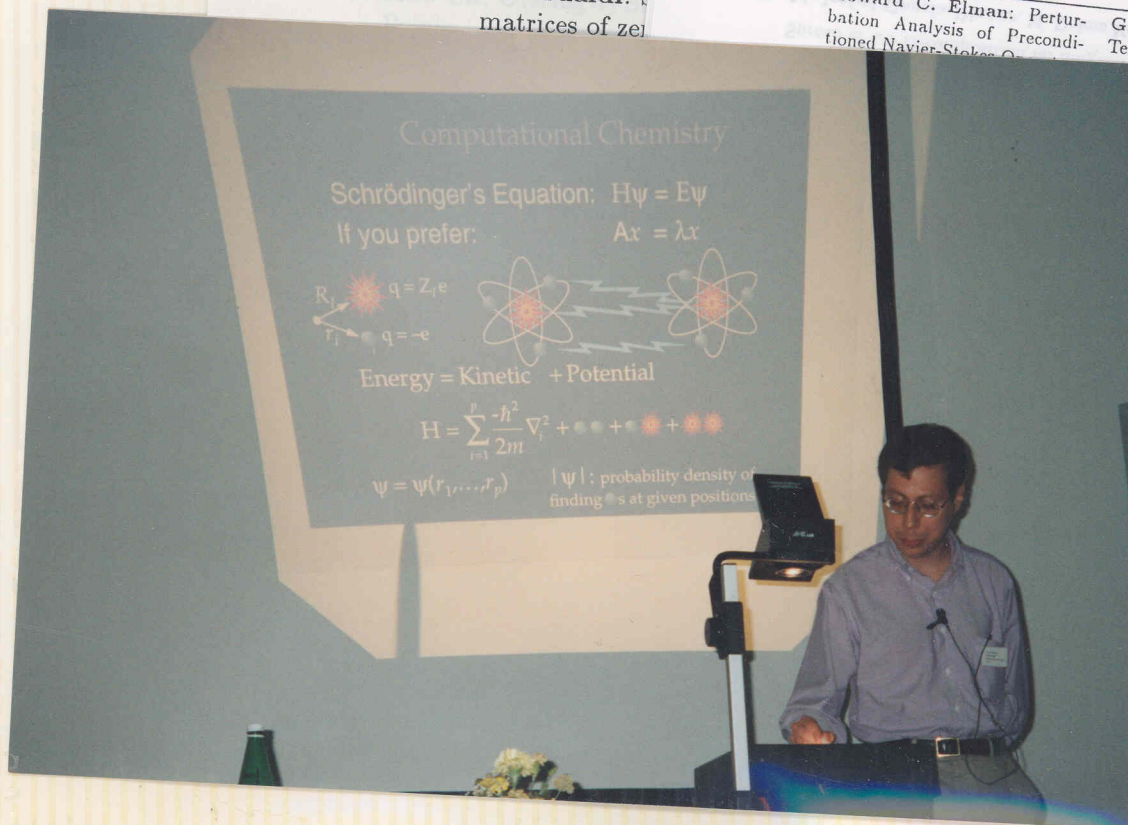
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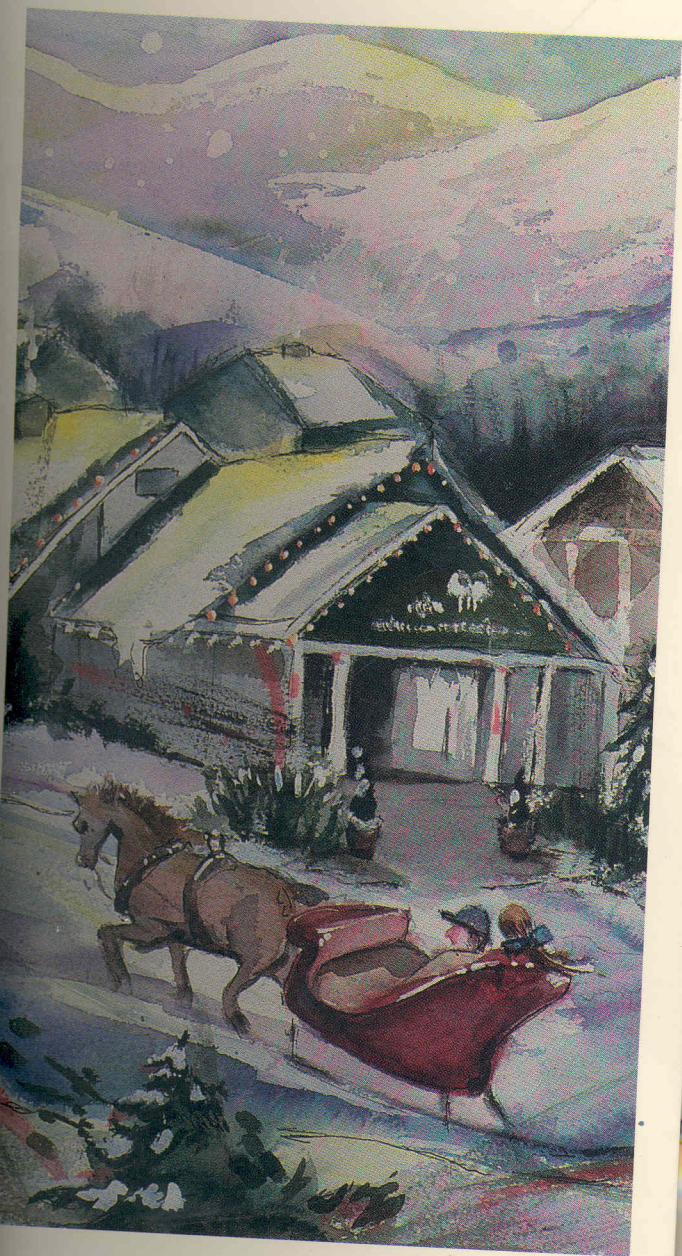
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G. Heinig: Transformation S. P. Eves
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PARK CITY UTAH

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- ENTERTAINMENT
- ACTIVITIES
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- COUPONS

PARK CITY UTAH

**Area Map
and Business
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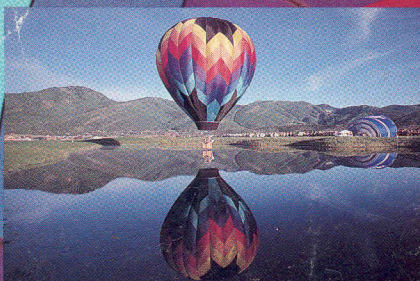
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WEDNESDAY, August 2

Free afternoon

THURSDAY, August 3

- 13.00-13.30 **CHARLES KENNEY**, "A Schur-Frechet algorithm for computing the logarithm of a matrix"
- 13.30-14.00 **MICHAEL BERRY**, "Sparse matrix reordering schemes for browsing hypertext"
- 14.15-14.45 **AVRAM SIDI**, "Convergence theory for simultaneous iteration and Krylov subspace methods for eigenvalues with special properties"
- 14.45-15.15 **ALAN EDELMAN**, "Mathematics of the Pentium divide flaw"
- 15.15-15.45 Tea
- 15.45-16.15 **LARS ELDEN**, "Schur-related algorithms for triangularizing Toeplitz matrices"
- 16.15-16.45 **SHIVKUMAR CHANDRASEKARAN**, "A fast stable solver for nonsymmetric Toeplitz systems"
- 17.00-17.30 **MING GU**, "A fast algorithm for solving Toeplitz systems of equations"
(will be presented in the Theatre)
- 17.30-18.00 **TONY CHAN**, "Probabilistic analysis of Gaussian elimination without pivoting"
(will be presented in the Theatre)

FRIDAY, August 4

- 13.00-13.30 **JESSE BARLOW**, "Better bidiagonal reduction for computing the singular value decomposition"
- 13.30-14.00 **ESMOND NG**, "On state-of-the-art sparse Cholesky factorization algorithms"
- 14.15-14.45 **BERESFORD PARLETT**, "Computing eigenvectors of tridiagonal matrices"
- 14.45-15.15 **NOEL NACHTIGAL**, "Application of QMR to the solution of the Euler equations"
- 15.15-15.45 Tea
- 16.15-16.45 **PATRICIA HOUGH**, "Complete orthogonal decomposition for weighted least squares"
- 17.00-17.30 **LOTHAR REICHEL**, TBA (will be presented in the Theatre)
(will be presented in the Theatre)
- 17.30-18.00 **V. KAHAN** (to be presented by JIM DEMMEL), "On the baleful effects of computer benchmarks upon applied mathematics, physics and chemistry"
(will be presented in the Theatre)

NUMERICAL LINEAR ALGEBRA WORKSHOP
PARK CITY, UTAH JULY 31-AUGUST 4, 1995

All talks will take place in Coalition 2, except where noted.

MONDAY, July 31

- | | |
|-------------|---|
| 13.30-14.00 | ROLAND FREUND, "A Lanczos-type algorithm for multiple starting vectors" |
| 14.15-14.45 | JOCELYNE ERHEL, "A parallel preconditioned GMRES algorithm on the Intel Paragon" |
| 14.45-15.15 | QIANG YE, "Convergence analysis of finite precision bi-conjugate gradient algorithms for nonsymmetric linear systems" |
| 15.15-15.45 | Tea |
| 16.15-16.45 | DANIELLA CALVETTI, "Iterative methods for the solution of ill-conditioned linear systems" |
| 17.00-17.30 | ALAN EDELMAN, "Numerical linear algebra on the Grassmann manifold"
(will be presented in the Theatre) |
| 17.30-18.00 | BO KAGSTROM, "A geometric approach to perturbation theory of matrices and matrix pencils: versal deformations and stratifications" (will be presented in the Theatre) |
| 18.00-19.00 | Reception on the North Patio |

TUESDAY, August 1

- | | |
|-------------|--|
| 13.00-13.30 | RICARDO FIERRO, "A matrix-preserving low-rank revealing decomposition" |
| 13.30-14.00 | ZHAOJUN BAI, "ABLE: An Adaptive Block Lanczos Method for Eigenproblems" |
| 14.15-14.45 | MARLIS HOCHBRUCK, "Krylov subspace approximations to the matrix exponential operator" |
| 14.45-15.15 | ILSE IPSEN, "Relative error bounds for eigenvalues of graded matrices do not require grading" |
| 15.15-15.45 | Tea |
| 15.45-16.15 | BERESFORD PARLETT, talk moved to Friday at 14.15 |
| 16.15-16.45 | DAVID WATKINS, "QR-like algorithms for calculating eigenvalues-an overview of convergence theory and practice" |
| 17.00-17.30 | DAVID DAY, "How the QR algorithm fails to converge and how to fix it"
(will be presented in the Theatre) |
| 17.30-18.00 | MICHAEL OVERTON, "On the Lidskii-Vishnik-Lyusternik perturbation theory for eigenvalues of matrices with arbitrary Jordan structure"
(will be presented in the Theatre) |

**CONTINUATION METHODS AND
POLYNOMIALS SYSTEMS WORKSHOP**

PARK CITY, UTAH JULY 31-AUGUST 3, 1995

All talks will take place in the South Lounge, except where noted.

MONDAY, July 31

- 13.00-14.00 **MOODY T. CHU**, North Carolina State University
"Continuous realization methods and their applications to linear algebra"
- 14.15-15.15 **T.-Y. LI**, Michigan State University
"A continuation approach to the algebraic eigenvalue problem"
(will be presented in the Theatre)
- 15.15-15.45 Tea
- 15.45-16.45 **CHARLES WAMPLER**, General Motors
"A product decomposition theorem for polynomial continuation"
- 17.00-18.00 **JAN VERSCHELDE**, Katholieke Universiteit Leuven
"Geometrical homotopy methods for solving polynomial systems"
- 18.00-19.00 Reception on the North Patio

TUESDAY, August 1

- 13.00-14.00 **EUSEBIUS DOEDEL**, Concordia University
"Numerical methods and software for continuation and bifurcation problems in differential equations"
- 14.15-15.15 **ANDREW SOMMESE**, Notre Dame University Notre Dame
"A numerical method for studying irreducible components of algebraic sets"
(will be presented in the Theatre)
- 15.15-15.45 Tea
- 15.45-16.45 **RONALD COOLS**, Katholieke Universiteit Leuven
"Multivariate integration rules, polynomial equations and symmetries: another eternal golden braid"
- 17.00-18.00 **PIERRE VERLINDEN**, Katholieke Universiteit Leuven
"A real zero-diminishing homotopy for an exponential polynomial"

WEDNESDAY, August 2

Free afternoon

THURSDAY, August 3

- 13.00-14.00 **HUBERT SCHWETLICK**, Tech. Univ. Dresden
"Path following and computing singular points of large nonlinear equations by implicit block elimination"
- 14.15-15.15 **JAMES A. YORKE**, University of Maryland, College Park
"Period doubling and the continuation of periodic orbits"
(will be presented in the Theatre)
- 15.15-15.45 Tea
- 15.45-16.45 **R. BAKER KEARFOTT**, The University of Southwestern Louisiana
"Experimental results: an interval step control for continuation methods"
- 17.00-18.00 **BIRK HUBER**, Cornell University
"Homotopies preserving the Newton polytope"

25TH ANNIVERSARY SEASON



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SEASON HEIGHTS



*Much Ado About
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July 5-30

by William Shakespeare

Directed and Choreographed
by Nancy Saklad

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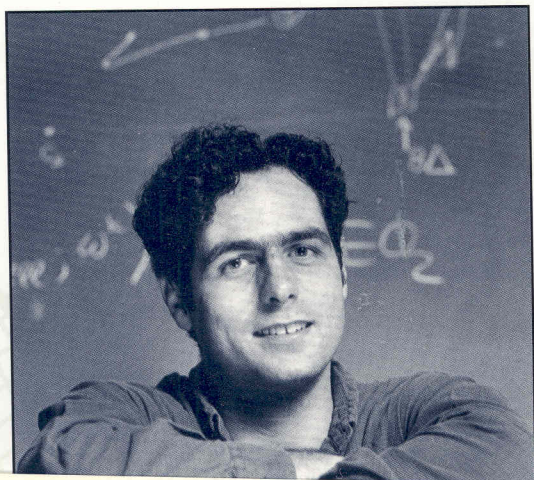
SIXTH
SEASON
1995

MASSACHUSETTS



Most of my professors have been terrific teachers. That's one of the things that makes me think I want to go into teaching. They're very down-to-earth, very accessible. I'm fortunate to be here.

*Silvina Zarate
Undergraduate,
mathematics*



**1995 MIT Student Workshop
on
Scalable Computing**



A G E N D A

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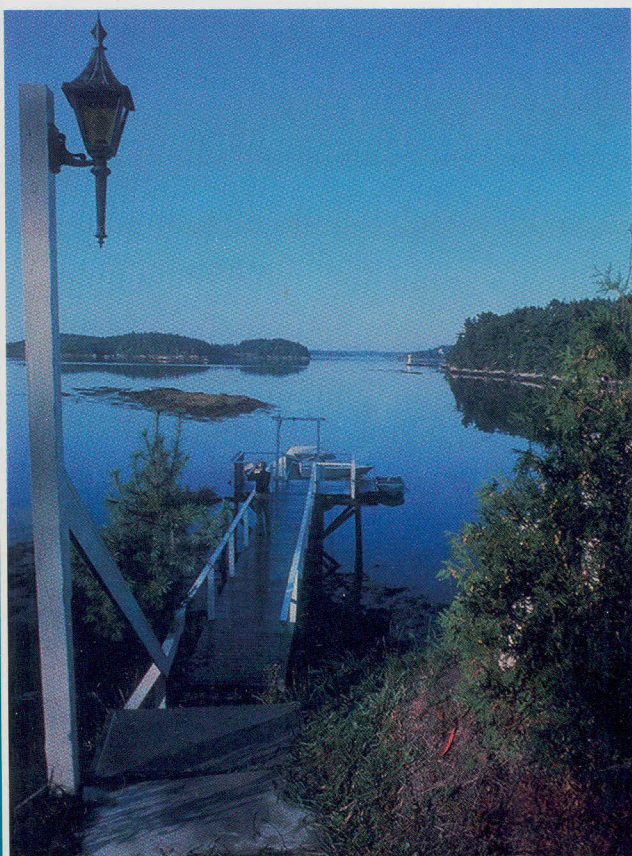
NIGHT LIGHTS CRUISE

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SAILING TRIPS

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... your island home



On Scenic Route 27
Southport Island, Maine

In the Picturesque Boothbay Harbor Region

Monhegan Associates Trail Map

Monhegan is a fragile, wild, beautiful island, cherished for generations by artists, writers, and nature lovers. Outside the Monhegan village, in the Island's "wildlands," there are approximately 17 miles of walking trails. These trails are on the natural surface of the land — soil, rocks, grass — which is uneven, rough, sometimes wet and often steep. The Island's ecology is easily altered by human activity. Please make every effort to maintain the Island in its natural state for those who follow after you. **Do not pick or uproot plants or mosses.** There have been forest fires on Monhegan and the danger of fire is always present.

Do not smoke or build fires outside the village.

To Orient You:

From the dock, follow the road up the hill to the main north-south road. Turn right to reach the center of the village, Burnt Mill Trail (#4) and Lobster Cove (where the trail begins). Turn left (north) to reach the schoolhouse, the Lighthouse Museum, White Head Trail (#7) and Black Head Trail (#10).

The Island is about .7 of a mile wide and .3 miles long. Trails on this map are not to scale, and distances are sometimes distorted to emphasize direction. Monhegan is hilly: the time required to cover a given distance is greater than that needed on ground.

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PIER 8

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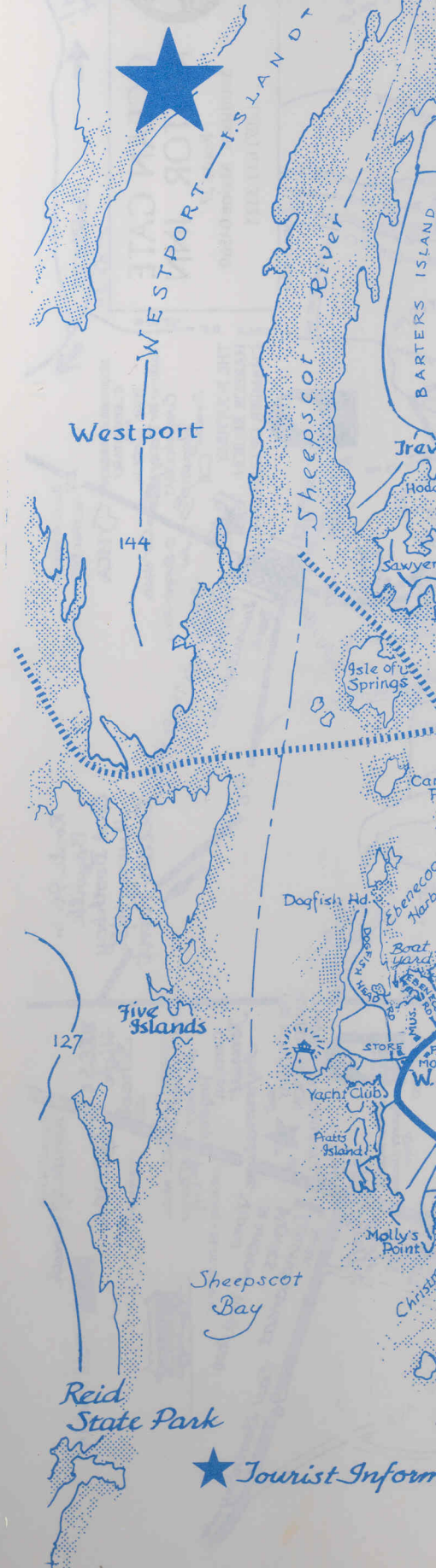
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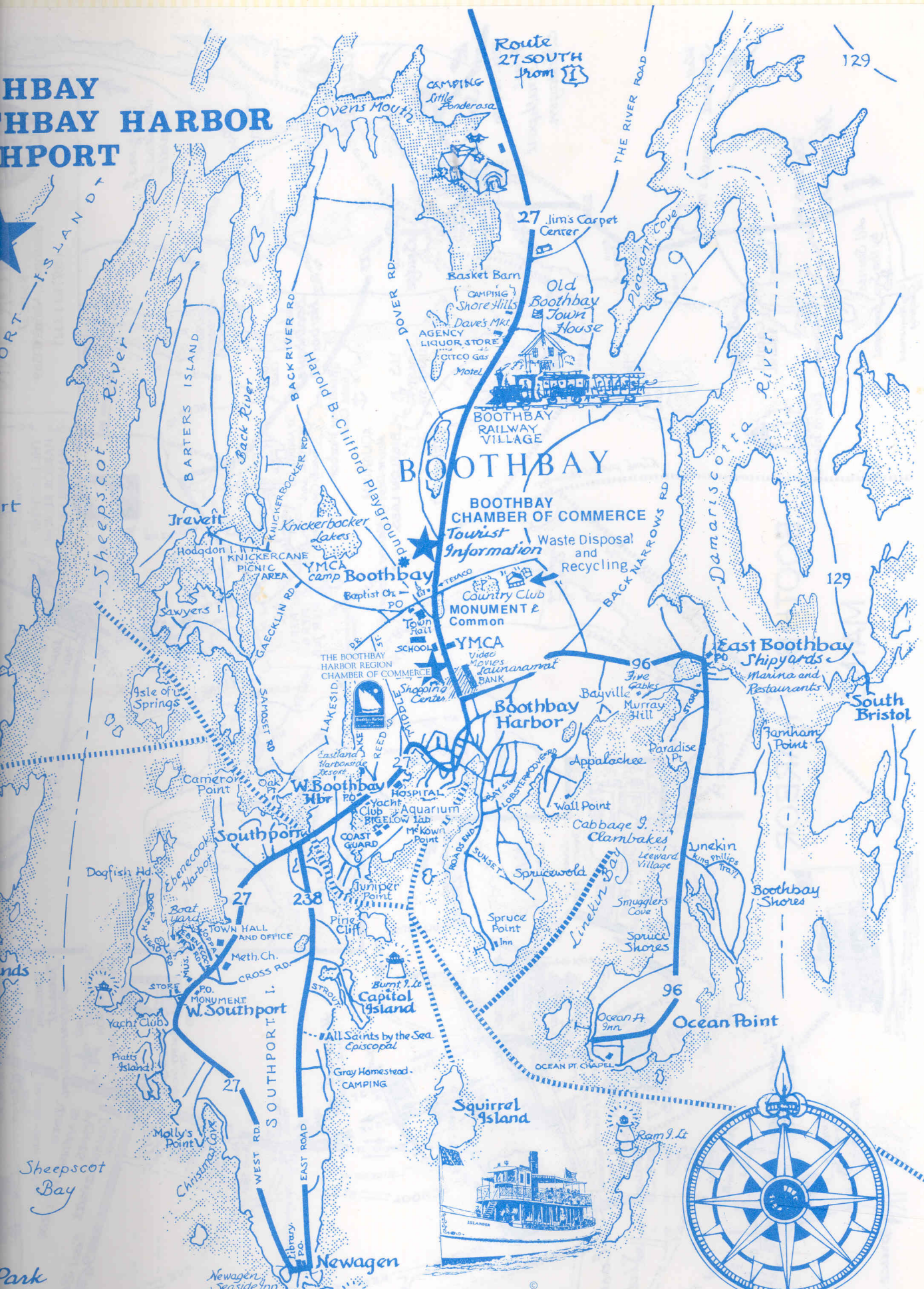
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BOOTHBAY BOOTHBAY HAR SOUTHPORT

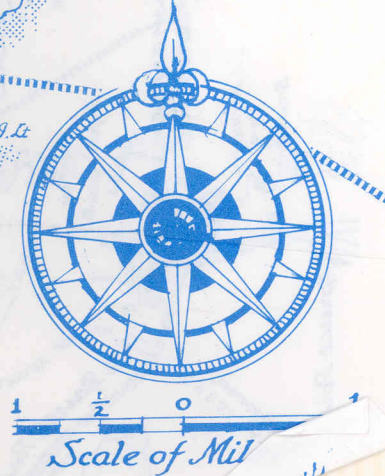


BOOTHBAY BOOTHBAY HARBOR BOOTHBAY PORT



★ **Tourist Information**

© Ruth Rhoads Lepper
Mapmaker and Publisher of this map.
Southport, Maine

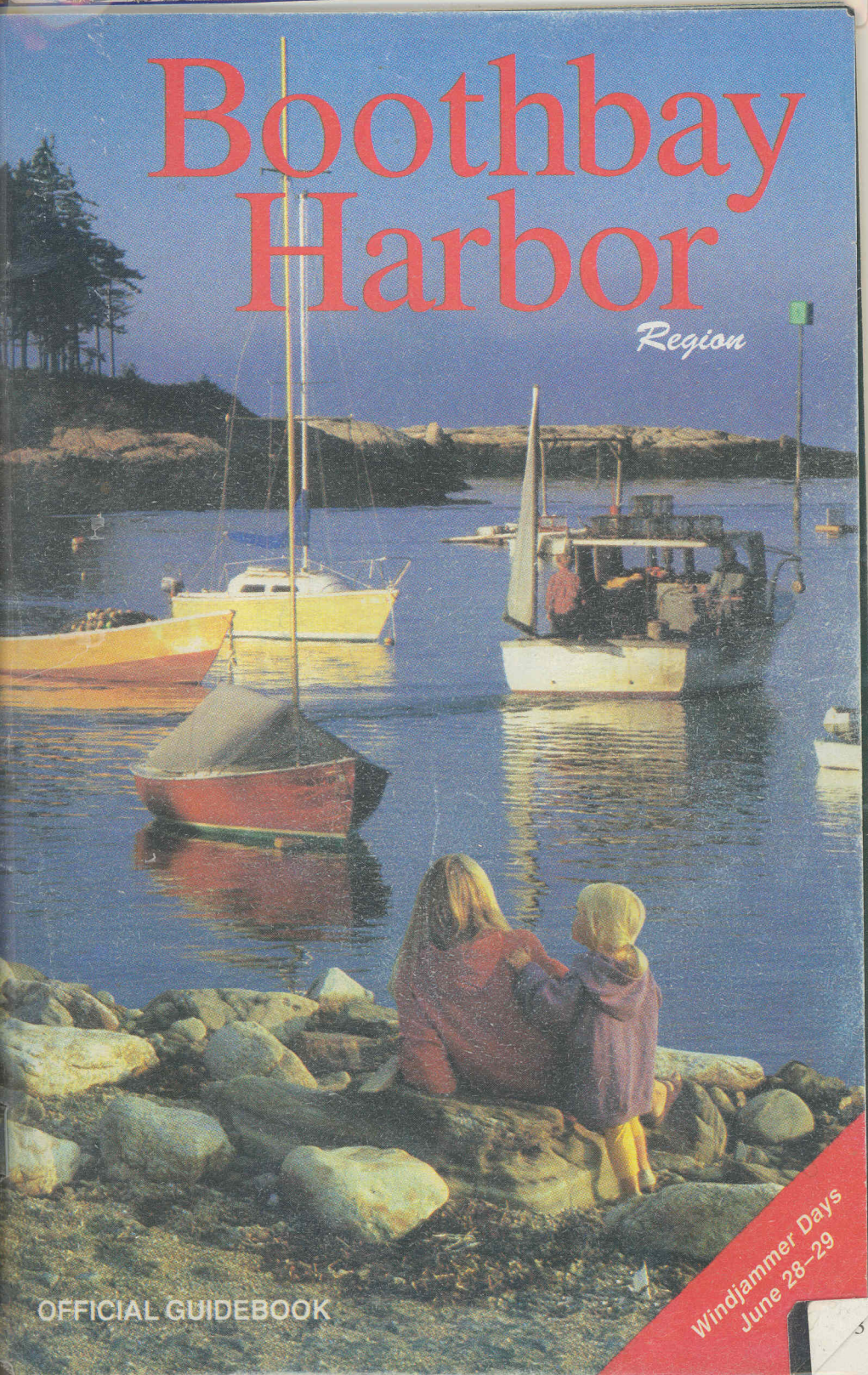


BOOTHBAY HARBOR, MAINE



Boothbay Harbor

Region



OFFICIAL GUIDEBOOK

Windjammer Days
June 28-29

FREEPORT

1995-96 Official
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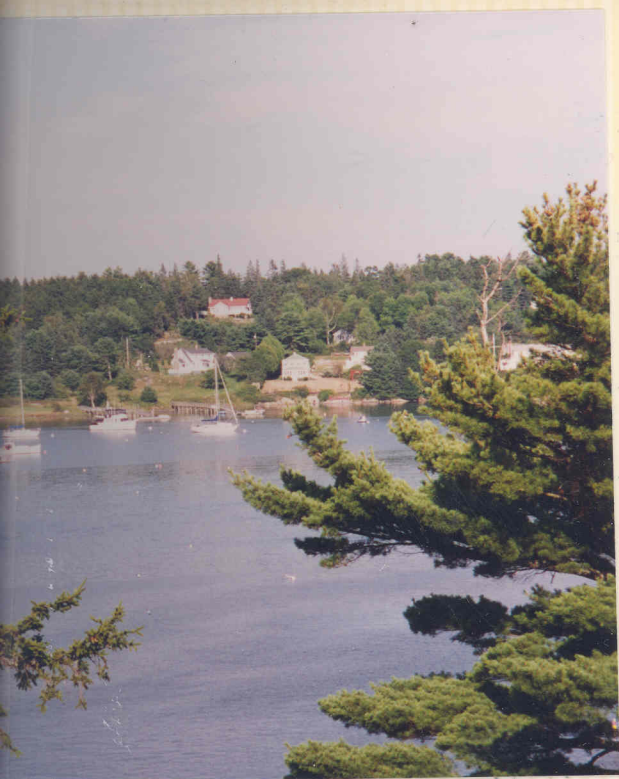


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SPECIAL REPORT

Credit Risk

A tiny Bible college is entangled in what could become an enormous NCAA eligibility scandal

by Alexander Wolff and Don Yaeger

THE SLOT players sat bleary-eyed in the background, prospecting for their elusive jackpots. But among a handful of college basketball coaches gathered in the lobby of the Aladdin Hotel in Las Vegas one night during the summer of 1993, the talk was of human lucre. The nation's finest high school prospects had come to the Nevada desert for an All-Star tournament, and these coaches—procurers of talent, preoccupied for years simply with getting players—found themselves discussing a sideline in which they had recently become experts: getting players eligible.

Ever since the NCAA's landmark enactment of Proposition 48 set minimal academic standards for athletes to meet in order to compete as freshmen, beginning in 1986, some of the best high school players have been forced to postpone their trips to the big time and make detours to junior college. Once enrolled at a juco, a player has had to earn a two-year associate degree before he could transfer to, and be eligible to play at, any NCAA school. Thus some college coaches began priding themselves on their ability to guide aca-

PIERRE DUCHARME (LEFT); EZRA SHAW

Mathematics Department

Reception

at

Endicott House

Saturday, September 16th

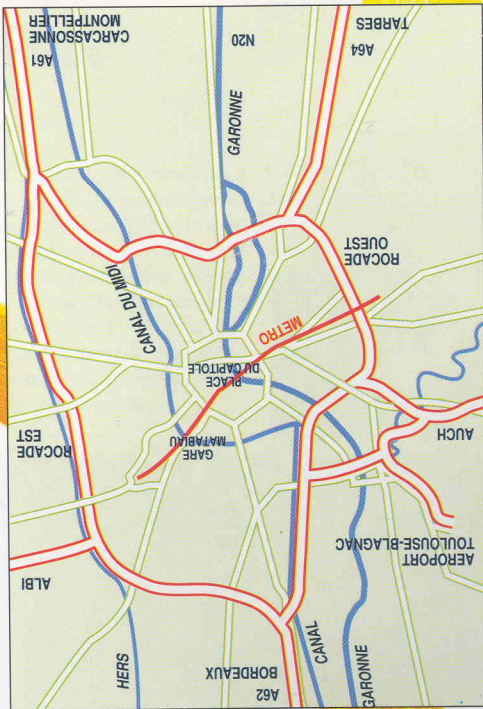
4-7 p.m.

*Come to see old friends and welcome
the new members of the Department*

RSVP by Friday, September 8th, 253-4382



Photos/Photographs
Calherine Gaudet
Ph. Gaudet (CCT)
Airbus Industrie
Motorola



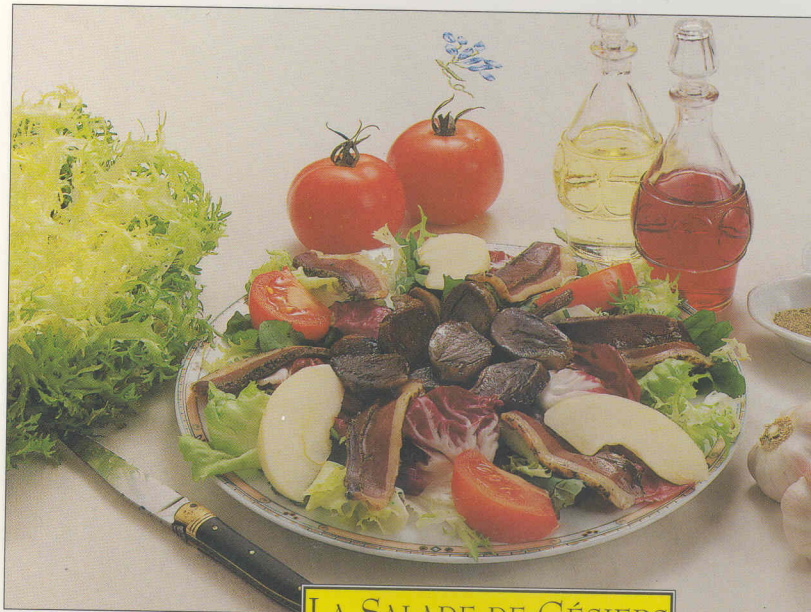
Toulouse is committed to the future. It is only seventy minutes from Paris via the "Toulouse-Bagnac" International Airport and just a few hours flight time from other major European hubs. The modern metro makes it possible to cross town in just fifteen minutes while the urban expressways, linked to the A61, make this a true Southern European cross-roads.

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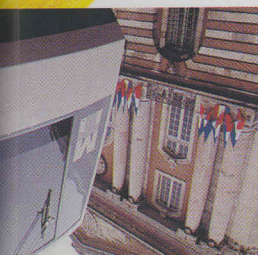
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Résolument tournée vers le
 Futur, la ville rose est do-
 itée d'un aéroport interna-
 tional "Toulouse-Matabiau"
 qui met Toulouse à 1h de
 Paris et à quelques heures
 des grandes capitales euro-
 péennes. Ville de com-
 munication avec un réseau
 de rocades, l'autoroute des
 Deux Mers et le métro VAL
 qui permet la traversée de
 Toulouse en 15 minutes.



ECETTES



FLASH

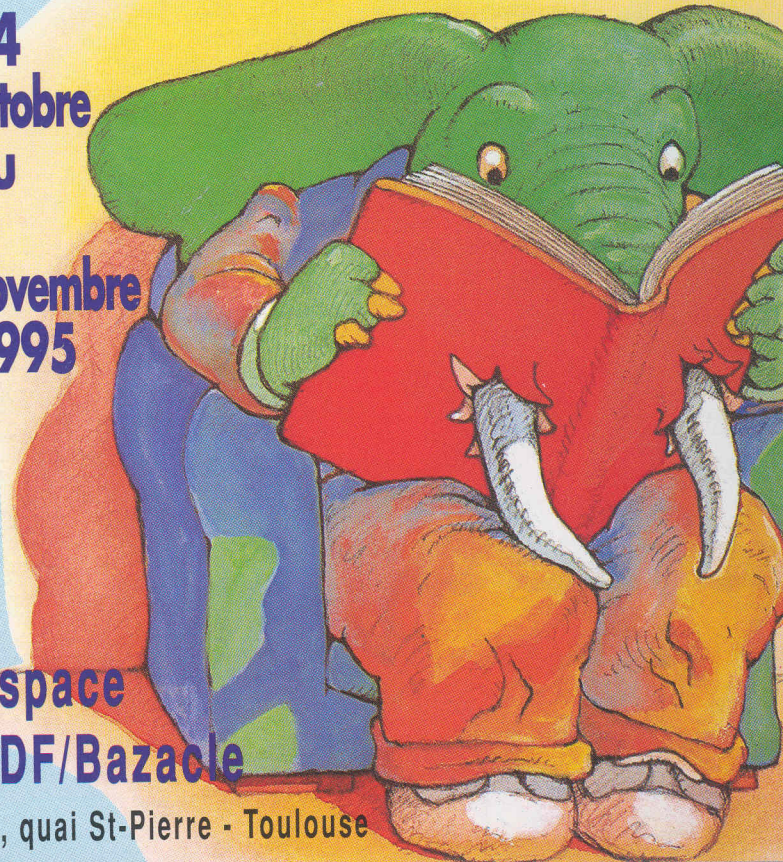
L'Hebdo

du 18 au 24 octo

N° 850 - 6 F

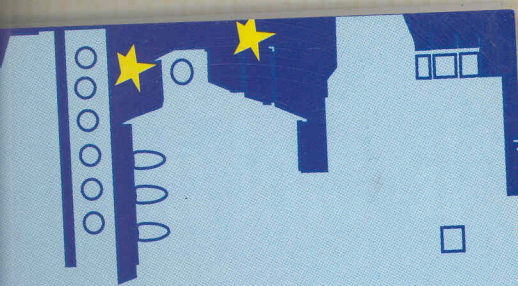
25 ans de création à
l'école des lois

**14
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 1995**



**Espace
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L'Hebdo loisirs

du 18 au 24 octobre 1995

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n à s loisirs



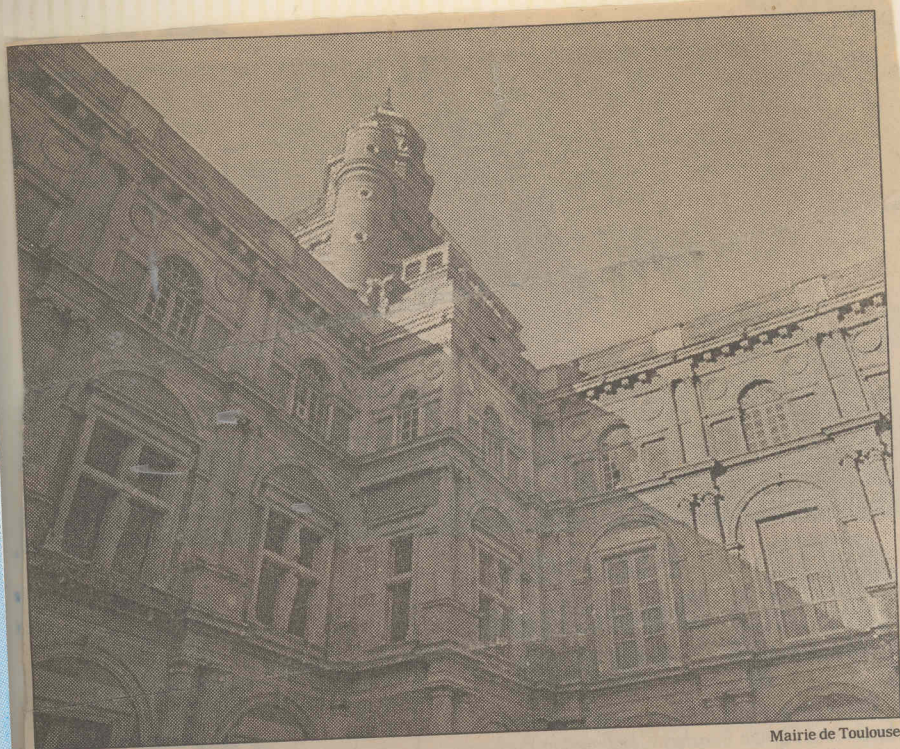
*Une
exposition
exceptionnelle
de 150 dessins
originaux de
plus de 30
créateurs*

proposée par

La Librairie
Ombres Blanches
à Toulouse

et la

Caisse d'Epargne
de Midi-Pyrénées



Mairie de Toulouse

The 1555 Assézat mansion, which houses the Bemberg collection.

New Museum in Toulouse

The Assézat mansion in Toulouse, France, recently opened as the Fondation Bemberg to display five centuries of European art. The collection represents the lifelong passion of Georges Bemberg, who donated 331 works, including 28 Bonnards.

The mansion that contains the collection was built in 1555 with the Assézat family's pastel dye fortune. The \$3 million interior restoration was financed by Mr. Bemberg, who, at 80, is an heir to Argentina's largest brewery.

After entering the courtyard crowned by spires, visitors pass into the first of nine galleries, illuminated by a turquoise Venetian crystal chandelier, where Canaletto's "Vue de Mestre" is displayed.

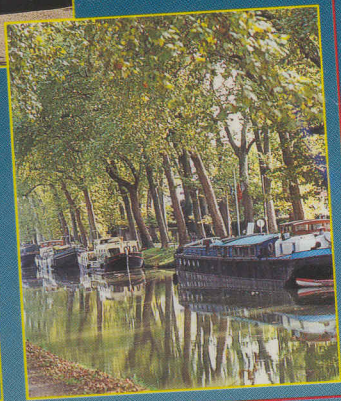
Limoges porcelain and enamels and German bronzes follow. Among the works representing the Dutch are paintings by Pieter de Hooch. On the second level, highlights of the 19th and 20th centuries include paintings by Camille Pissarro, Paul Gauguin, the Fauves and later canvases by Henri Matisse, including "Vue d'Antibes." In a nearby hallway is Pierre Bonnard's "Le Moulin Rouge" and Claude Monet's "Bateaux sur la Plage à Étretat."

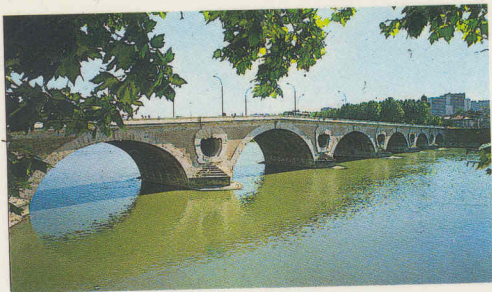
The museum is at the Place d'Assézat, Rue de Metz, 61.12.06.89, near the Esquirol Métro stop. It is open 10 A.M. to 5 P.M. (to 6 P.M. during the summer); closed Tuesday; \$5.

SHELLEY ASPAKLARIA



TOULOUSE
VILLE
ROSE

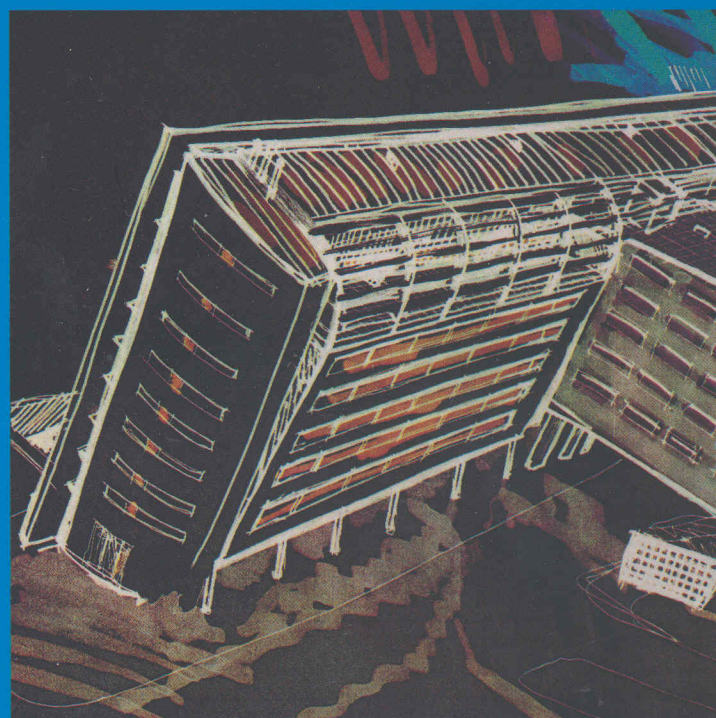




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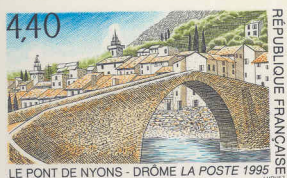


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Maire de Toulouse

vous prie de lui faire l'honneur
à la réception qui sera donnée au D
le mardi 17 octobre 1995, à
à l'occasion du 2^e Séminaire de l'Année Intern

Cette invitation strictement personnelle se

MAIRIE DE  **TOULOUSE**

DEPARTMENT OF SCIENCE AND COLLOQUIUM

Thursday, November 16, 1995
302 Pond
4:00 p.m.

by

Dr. Alan
Massachusetts Institute of Technology

On the Pentium

ABSTRACT

Despite all of the publicity surrounding the details of the bug are poorly understood. We give a proof of the Coe, Tang, result that the asymptotic positions 5 through 10. Also we explain why the moments in $[1,2)$ is on the order of $1e-5$.

REFRESHMENTS WILL BE SERVED



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P Y R E N E E S

Dominique Baudis
Maire de Toulouse

*honneur de lui faire l'honneur d'assister
qui sera donnée au Donjon du Capitole,
mardi 17 octobre 1995, à 18 h 30,
de l'Année Internationale de l'Algèbre Linéaire.
tion strictement personnelle sera exigée à l'entrée.*

MAIRIE DE TOULOUSE

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING COLLOQUIUM

**Thursday, November 16, 1995
302 Pond Lab
4:00 p.m.**

by

Dr. Alan Edelman
Massachusetts Institute of Technology

On the Pentium Division Flaw

ABSTRACT

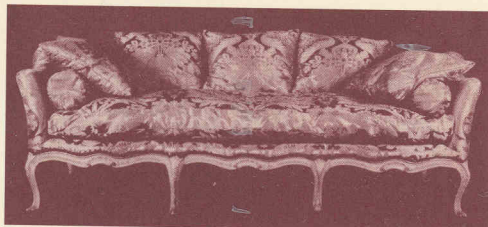
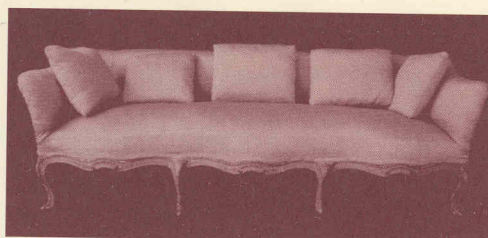
The publicity surrounding last year's Pentium flaw, the mathematical details are poorly understood. We discuss these details, supply a simplified proof, Tang, result that the at risk divisors have six consecutive ones in base 10. Also we explain why the worst case absolute error for argument is on the order of $1e-5$.

REFRESHMENTS WILL BE SERVED AT 3:30 p.m. in 332 POND

The Little Salon

(continued from page 1)

Before and after views of a Louis XV style Italian sofa in the Little Salon.



"Upholstery textiles do not last more than about twenty years here at the Gardner without showing significant fading, shearing, and discoloration," says Chief Conservator Barbara Mangum, who has made a careful study of Museum records. "Most of the 189 works have been reupholstered about three times since the Museum opened. It's a little like painting the Brooklyn Bridge. One is never finished."

And so it was that Gisèle Haven, a native of Lyons, France, who studied her craft in Paris as well as New York City, arrived in 1992 from the Society for the Preservation of New England Antiquities (SPNEA) to assist in the reupholstering of furniture at

a museum where reupholstering was quite done. For Gisèle, it was part nightmare, part dream come true.

"The Little Salon was a very sad room when I got there," says Gisèle. Being French, takes eighteenth-century salons seriously. "It was a dispirited, deflated, just like the pillows. There was a lot to do."

Indeed, there was. Most of the furniture in the Little Salon had not been reupholstered for significantly longer than the average. Of the five damaged sets, four were members of sets that had been reupholstered all together lest one cover make the others look worse. Moreover, three of the pieces in the Little Salon were covered in bland, neutral fabrics chosen in the 1960s and 1970s when aesthetics tended toward a minimalist upholstery that urged, "Look at me, look at the frame." The fabrics were hardly reminiscent of the richly colored and boldly patterned fabrics that Isabella Gardner had originally chosen for the room.

In the end, it was the latter consideration that decided the scope of the Little Salon project, for in 1991 the Museum made the decision to actively return the gallery

New Members

(from June 22, 1995, through June 22, 1996)

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Mr. Alfred M. Ajami
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Mr. and Mrs. Norman Bridwell

Mr. David Carlson and
Ms. Eleanor Hammill
James R. and Jean B. Carter
Mr. John R. Chandler
Mr. Paul Chandler
Ms. Elizabeth Chapman and
Mr. Carter Manny
Ms. La Verna Chow Hine
Ms. Linda Choy
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Mr. Richard W. Cogan
Dr. Kenneth Cohen and
Ms. Kim Watanabe
Ms. Helen P. Connors
Audrey and David B. Cooper
Ms. Rebecca Lyn Cooper
Ms. Helen Cotton
Ms. Bonnie L. Crane
Ms. Francine Crawford
Mrs. Joan D. Cumming
Mr. Robert L. Cunningham
Mr. Robert Cunningham
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Mr. Joseph Deitch and
Dr. Robbie Lacritz
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Mr. John Dinkelspiel and
Ms. Barbara Burgess
Mr. Joseph Dixon
Ms. Patricia A. Donnelly
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Mr. Thomas Dougherty
Mr. and Mrs. Edward Downey
Ms. Frances Doyle
Mr. Jim Dunn and Ms. Jenny Fyler
Mr. Warren W. Dunn
Ms. Patricia S. Dunning
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Ms. Beth Easterly
Mr. Alan Edelman
Mrs. John Elliot

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Ms. Amy M. Fortenbaugh
Mr. and Mrs. Jeffrey Franc
Miss Sara C. Frank
Dr. Lindsay Frazier and
Mr. Owen Dempsey
Ms. Elizabeth A. Frost
Ms. Beatrice E. Fuller
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Mrs. Isabel Gomez-Fuller
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Ms. Elizabeth A. Humphreys
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Ms. Nancy A. Huxford

reupholstering is never Gisèle, it was part dream come true.

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the latter consideration scope of the Little Salon 01 the Museum made a ly return the galleries to

the look its founder intended. Archival photographs taken in 1926 document Isabella's tastes in upholstery fabrics and form. Checking the twenty-four pieces of upholstery in the room against the photographs, a conservation and curatorial team began work to reupholster all but one of the pieces.

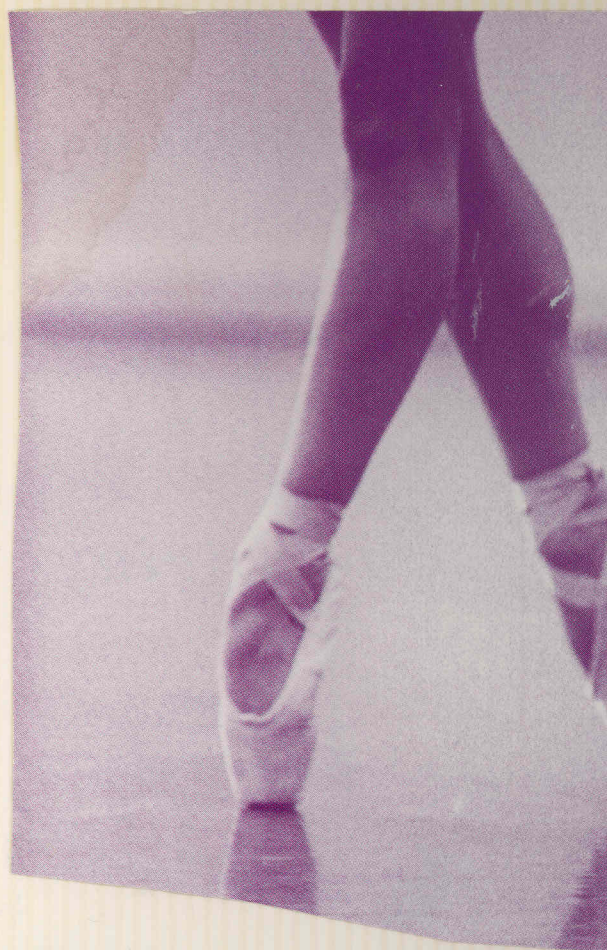
Before Gisèle could begin reupholstering, there was historic research to do. Gisèle and the textile conservation staff researched the fabrics. The conservators of objects had work to do on the pieces' frames, such as consolidating flaking paint. Besides the archival photographs, there were some written records to investigate that documented fabrics used in the past, and, happily, some pieces of 1926 fabric were found in storage. Other clues turned up in the workroom, where an uncovered furniture frame will often yield scraps of fabric or evidence of old upholstery techniques. In this undercover detective work, old tacks always cause a commotion.

"Old tacks are easily dated," Gisèle explains, "and because of their configuration, they are very difficult to remove. Some of the old tacks have been left in the frames with little vestiges of fabric clinging to them. That is very good for us because not only

October 22, 1995, through November 8, 1995)

Ms. Myna Jayne Joseph
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Mr. Raymond E. Ozzie
Mr. D. Cosmo Papa



HAPPILY EVER AFT

Dances and Fairy Tales

OCTOBER 12-29, 1995

Approximate Running Time: 2 hours, 25 m

There will be two intermissions.

See program insert for casting.

THE STEADFAST TIN SOLDIER

Music by Georges Bizet

(Scenes Bohemiennes from La Jolie Fille de Perth and select

Choreography by Bruce Marks and Bruce

Scenery and Costume design by Jens-Jacob

Lighting design by Craig Miller

—Intermission—

THE NIGHTINGALE

World Premiere

Music by Jonathan McPhee

Choreography by Lucinda Hughey

Scenery Design by Edie Whitsett

Costume Design by Larae Hascall

Lighting Design by Brian MacDevitt

—Intermission—

THE PRINCESS AND THE PEASANT

World Premiere

Music by Gustav Holst

Choreography by Daniel Pelzig

Scenery Design by Michael Anania

Costume Design by Mariann Verhey

Lighting Design by Brian MacDevitt



BOSTON BALLET

Season

1995-96

AT THE WANG CENTER
FOR THE PERFORMING ARTS

Y EVER AFTER s and Fairy Tales

OBER 12-29, 1995

ning Time: 2 hours, 25 minutes.

ill be two intermissions.

gram insert for casting.

ADFAST TIN SOLDIER

ic by Georges Bizet

Fille de Perth and selections from *Jeux d'Enfants*)

y Bruce Marks and Bruce Wells

ne design by Jens-Jacob Worsaae

design by Craig Miller

-Intermission-

E NIGHTINGALE

World Premiere

by Jonathan McPhee

phy by Lucinda Hughey

Design by Edie Whitsett

Design by Larae Hascall

Design by Brian MacDevitt

-Intermission-

NCCESS AND THE PEA

World Premiere

c by Gustav Holst

raphy by Daniel Pelzig

Design by Michael Anania

Design by Mariann Verbeyen

Design by Brian MacDevitt

THE STORIES

Synopsis of *The Steadfast Tin Soldier*

On Christmas Eve in Denmark, children are excitedly opening their presents. A little boy receives a box of treasured tin soldiers, which are placed with all the other toys. The soldiers, each straight as a rifle stick, and wearing a painted red and blue uniform, are all alike, since they were cast from the same tin spoon. Yet one stands apart: he is the most steadfast of them all.

Also among the gifts is the beautiful Paper Ballerina, set in front of her pasteboard castle. Although for him it's love at first sight, the Steadfast Tin Soldier is rather shy in approaching her.

At night, all the toys come to life to dance about and play, but the soldiers maintain their staunch vigil. In a fit of jealousy, a rival for the beautiful Ballerina's attentions—a scheming Jack-in-the-Box—pushes the Steadfast Tin Soldier out the window. The rumpled Tin Soldier is found by a street urchin, who puts him in a paper boat and pushes him down the gutter. The Steadfast Tin Soldier is washed out to sea.

Surviving tides, torrents, and hungry fish, the Tin Soldier is miraculously rescued when the very family he belonged to discovers him inside the fish they are eating for dinner.

The Tin Soldier is reunited with his true love, the Paper Ballerina. But suddenly, a cruel breeze sweeps the Ballerina into the fireplace. The Tin Soldier follows her and throws himself into the flames. Joined by their passion, they are consumed by the fire, but united in love forever.

Synopsis of *The Nightingale*

The Emperor of China lives in a splendid palace that is believed to be the most beautiful in the whole world. The palace garden is a wonder too. It is full of exquisite flowers; the loveliest of which have tiny silver bells tied to them to make sure that no one passes by without noticing them. Deep in the forest, beyond the Emperor's palace, is the most wonderful thing of all - a Nightingale who sings so beautifully that all who hear her songs can never forget them. The Emperor, hearing of this unique bird, journeys to the forest and brings her back to his palace. The Nightingale performs so beautifully for the Emperor that he is moved to tears. As a sign of his gratitude, he asks the bird to remain at his side forever. Touched by the Emperor's tears, the Nightingale agrees.

One day a package containing a beautiful, jeweled music box in the shape of a bird arrives from the Emperor of Japan. The Emperor, delighted with the gift, arranges for the real Nightingale to sing with her mechanical counterpart. The duet fails miserably because the real Nightingale sings in her own way, and the other bird's song comes out of a machine. So the clockwork bird is set to sing alone. Over and over, the mechanical bird sings the same tune. Overwhelmed by the dazzling beauty of the toy bird, no one notices when the real bird returns to the wild. And then, as machines do, the music box breaks.

The Emperor, devastated that he has not only lost the mechanical bird but the real Nightingale as well, becomes gravely ill and is visited by Death in his bed chamber. Delirious, the Emperor cries out for music. The real Nightingale hears his plea and lures Death away with her enchanting voice. Thankful for the Nightingale's assistance, the Emperor expresses remorse



To Allen

*With best wishes for a merry Christmas
and a happy new year.*

and a Happy Hanukkah too!

With Best wishes

Arind, Aik, Divakar & Prabhakar



Zalig Kerstfeest en Gelukkig Nieuwjaar!


Joyeux Noël et Heureuse Année!

Merry Christmas and a Happy New Year!

Frohe Weihnachten und ein Glückliches Neues Jahr!

Elektrotechniek-ESAT

KATHOLIEKE UNIVERSITEIT LEUVEN
KARDINAAL MERCIERLAAN 94
B-3001 HEVERLEE, BELGIUM


Bart De Roo

December 1995
8 Kings Walk
Atlanta GA 30307
404) 370-1971

Dear Alan:

Happy holidays!

Rich and I have had a very eventful year. After our wedding in May, we went to England and Ireland for a 3 week honeymoon. We first spent a few days in Oxford and then took a self-guided six-day walking tour of the Cotswolds region of England. Our luggage was transported each night to the next town, and we set out every day for a six to nine mile trek over gorgeous countryside, through sheep and cow pastures and pretty little towns. The lambs were so cute that I made Rich swear off eating lamb for the duration of the honeymoon. The walking tour was a wonderful adventure, with just the two of us, guided by maps provided by the tour company. We then flew to Dublin for a couple of days, where I was able to find out quite a bit about my greatgrandparents. The highpoint was tracking down the church where they had married in 1880 and seeing my grandfather's birthplace. We rented a car and made our way towards the west coast of Ireland, to the town of Tralee. We stayed in a small, charming castle. We walked around the lakes of Killarney and saw spectacular scenery. Our last night in Ireland was spent in a B&B in Glin, run by some distant cousins of Rich. They were very kind people that said "ye" and "tis" in a beautiful inflection. The last leg of the trip was in London for two days. Mainly we shopped around and went to the theater. We've both been to London a few times before, so it was a welcome transition between our honeymoon and the sad reality of having to return to the states.

Unfortunately, when we returned, we faced the daunting prospect of trying to find a place big enough for the two of us. After abandoning our dream of renting a huge house, we ended up in a two-story, three-bedroom townhouse. It's quite nice and spacious. We will be here (at the address above) at least until December of next year. (Although we may move again next December, or shortly thereafter, as long as I am in Atlanta, I can reliably be reached at Emory Law School, 1301 Clifton Rd., Atlanta, GA 30322. My phone there is 404)727-6810.)

The last bit of news is the most important. Rich and I are expecting a baby at the end of April! We are, of course, very excited about this development. Before the baby is born, there is the small matter of my tenure vote, which will occur sometime in March. Thus far, I have been able to hide the pregnancy at work, though that is sure to change in the next few weeks. Being 8 months pregnant at the time my senior faculty will consider whether I am worthy of tenure will certainly be a challenge in stress management. Wish me luck.

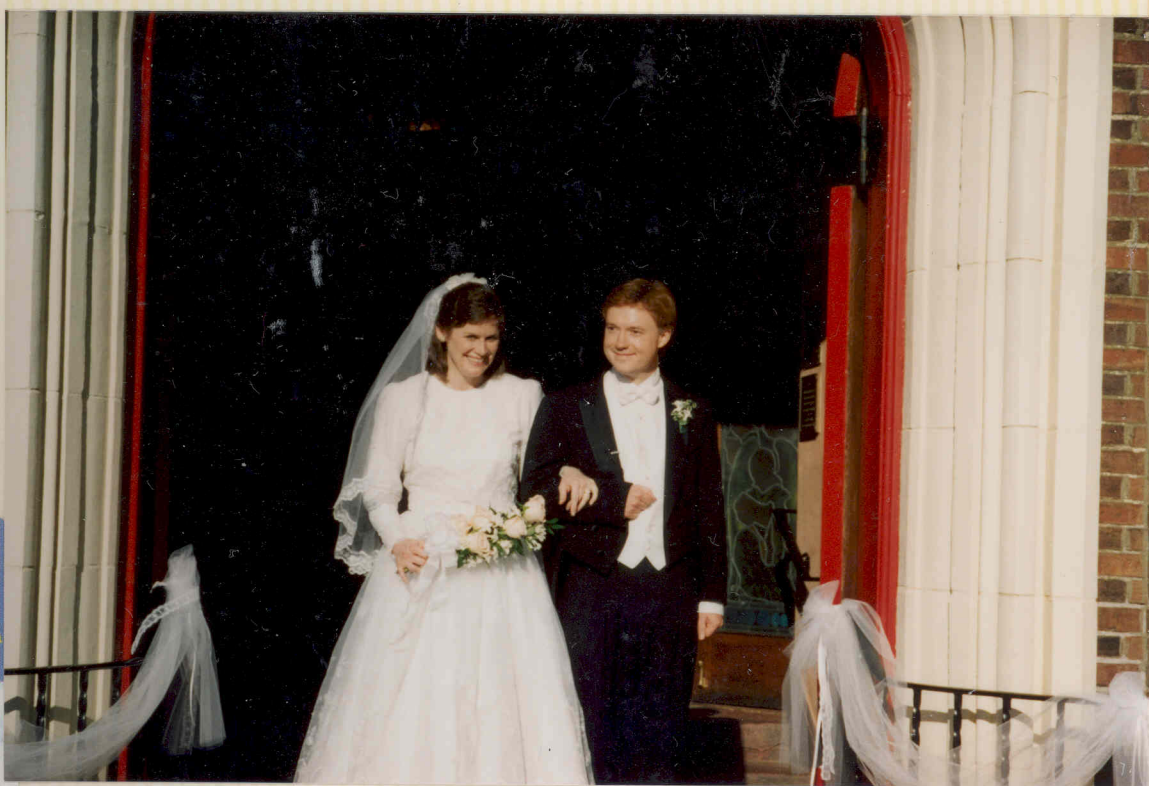
Well, that is my year in a nutshell. I hope all is well with you and that 1996 will develop to be a great year for you. Rich and I wish you the very best.

Love,
Colleen



Dear Alai: **GREETINGS OF THE**

Let me say once again
 meant to me that you
 my wedding. I hope
 can make it to Boston
 I make a swing to
 ten-year reunion. If
 there will be a baby in
 letter I. All my best to you



1995

Dear Alai: **GREETINGS OF THE SEASON.**

Let me say once again how much it meant to me that you came for my wedding. I hope very much that I can make it to Boston in the fall, as I make a swing to Yale for my ten-year reunion. If all goes well, there will be a baby in tow! [see letter]. All my best to you! Love, Colleen

MASSACHUSETTS INSTITUTE OF TECHNOLOGY

LINCOLN LABORATORY

244 WOOD STREET
LEXINGTON, MASSACHUSETTS 02173-9108

Area Code 617
981-2574

13 December 1995

Professor Alan Edelman
Massachusetts Institute of Technology
Room 2-280
77 Massachusetts Avenue
Cambridge, MA 02139

Dear Professor Edelman:

On behalf of MIT Lincoln Laboratory and the Distinguished Lecture Committee, please accept our appreciation for your lecture on the "The Mathematics of the Intel Pentium Division Flaw."

Travel commitments precluded my attendance at your lecture and luncheon. I am told it was "standing room only" attendance. Thank you again, and best wishes for your continued success.

Sincerely,

A handwritten signature in cursive script, reading "Charles M. Rader".

Charles M. Rader, Chairman
Distinguished Lecture Committee



You are cordially invited
to attend
the
MIT
Laboratory for Computer Science
Holiday Party
to be held
at
The John F. Kennedy Library
Columbia Point
Boston, Massachusetts
on
Saturday
December 16th, 1995
from
6:30 pm - 11:00 pm

Please RSVP by
Monday, December 4th
(617) 253-5851





invited

Computer Science
Party
d

edy Library
oint
achusetts

ay
th, 1995

1:00 pm

VP by
ember 4th
-5851



18.335

Numerical Methods I

Prof. Alan Edelman

Wednesday/Friday 3–4:30 Room 1-390

Topics:

IEEE Floating Point Standard

Classical Iterative Methods

Direct Methods for Linear Systems

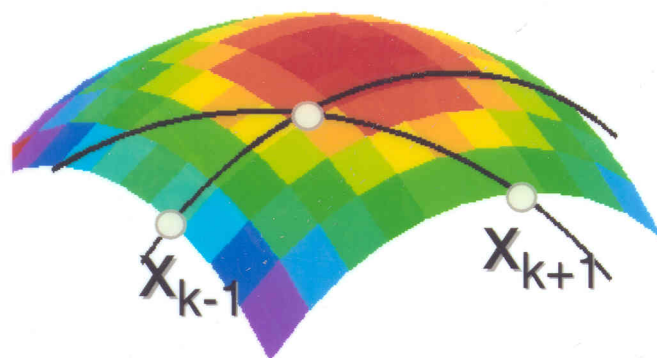
Eigenvalues and the SVD

The Pentium Flaw

Modern Iterative Methods

FFT

Multigrid



Advanced introduction to applications and theory of numerical methods. Concentration on numerical linear algebra. **Multigrid** will be covered in far more depth than in previous years. We may also try one application on a **parallel computer**.

Web page: <http://web.mit.edu/18.335/WWW/>