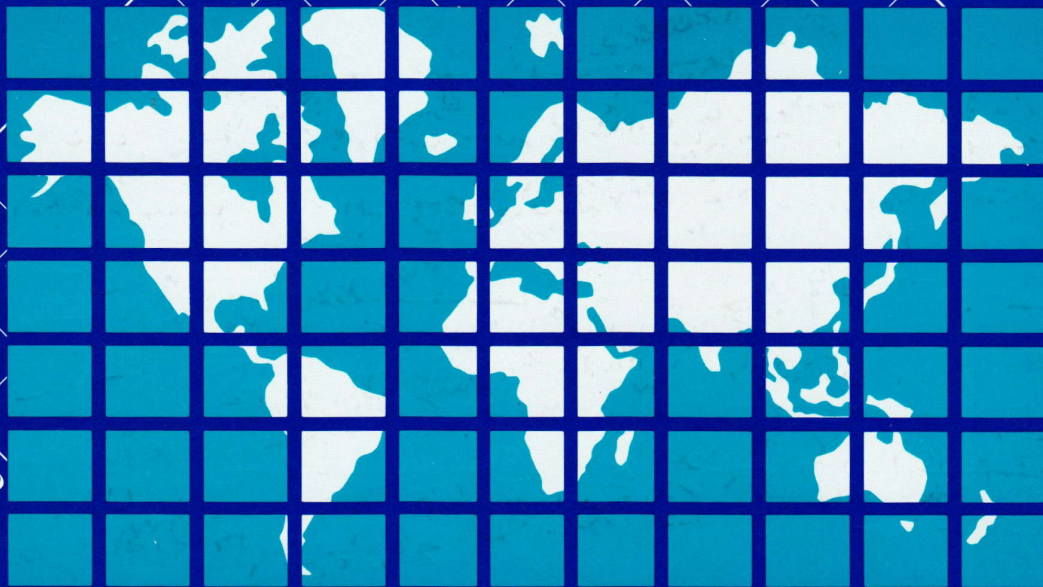


# ICIAM 91



SECOND

MATHEMATICS

*Final Program*  
INTERNATIONAL CONFERENCE ON INDUSTRIAL AND APPLIED

July 8–12, 1991



Sheraton Washington Hotel



Washington, D.C. USA



# INTERNATIONAL CONFERENCE ON INDUSTRIAL AND APPLIED MATHEMATICS



Nearly 1800 applied mathematicians, engineers, and scientists from more than 50 countries attended ICIAM 87 in Paris on June 29 - July 3, 1987. The meeting was hosted by SMAI, the relatively new French society for industrial and applied mathematics, to highlight the importance of applied mathematics and to establish itself in the international scientific community. It was sponsored jointly by GAMM of the German speaking countries, IMA of Great Britain, SIAM of the United States, and SMAI. INRIA (France) conducted the meeting.

The conference signaled worldwide recognition by applied mathematicians that they have a common profession and common interests. It indicated the relatively large size of the applied mathematics community and the desire of its members to communicate with each other and exchange ideas. The program illustrated well that mathematics and computers were being used to solve important real world problems.

Shortly following ICIAM 87, the Committee for ICIAM decided that an "ICIAM" should be conducted every four years and that SIAM should be the 1991 host society. Since then, the ICIAM 91 program committee and SIAM have been hard at work organizing the ICIAM 91 program and arranging for the conference.

At its meeting in Antibes in May 1990, the Committee for ICIAM accepted CAMS of Canada, SIMAI of Italy, and the European Consortium for Mathematics in Industry (ECMI) as members of ICIAM. It was agreed that ICIAM 95 should take place at Germany's International Conference Center in Berlin in 1995, with GAMM as the host society.

On this eve of ICIAM 91, I wish you all the best for a beneficial and rewarding conference.

Roger Temam, Université Paris-Sud  
Chair, Committee for ICIAM

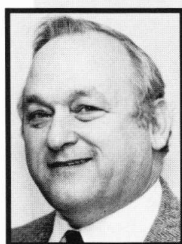


ICIAM 91 is a milestone in the evolution of the international applied mathematics community. Great advances have been made in the methodologies of applied mathematics, many of them driven by the increasing capability and performance of computers. Coupled with this have been equally great advances in the application of mathematics to problems of design in engineering and manufacturing, medical research, systems design, and the development of models that increase the understanding of virtually anything that "works."

In looking to the future, we can expect such progress to accelerate. Now we truly have a quadrennial meeting. Future "ICIAMS" will play an important role in increasing interaction among the worldwide community of applied and computational mathematicians, as well as mathematically-oriented engineers and scientists. The ICIAMS will be important in promoting the use of mathematics in solving the great problems that face the world community in the years ahead—problems, for example, of health, education, and the environment.

New member societies from several countries have joined ICIAM. It is likely other societies will join the roster. For the future, I urge you to strengthen your international ties and apply your professional skills to the improvement of life around the world.

C.W. Gear, NEC Research Institute, Inc.  
President, ICIAM 91



The response to the ICIAM 91 call for papers has been overwhelming. In all, more than 1700 speakers from more than 60 countries are scheduled for presentations. The program shows a cross section of problems in applied and computational mathematics that are being investigated around the world—from traditional applied mathematics to mathematics arising from problems of modern technology and the needs of industry and society. We hope that all the speakers scheduled will find it possible to participate.

Wavelets and fast numerical algorithms; constructive combinatorics; exponential asymptotics; chaos, control and noise; massively parallel computing; self-validating numerical methods; models of vision; Darcy flow; dynamics of patterns and interfaces; and seismic inverse problems are but a few of the topics of the conference. I call attention especially to the sessions on mathematics and computing in manufacturing and design, where you will find methodology aimed at increasing productivity. It seems certain that mathematics is becoming increasingly useful and important worldwide in advancing technology and the quality of life.

Thanks are due from all of us to the SIAM staff for their hard work in bringing ICIAM 91 to fruition. We wish GAMM all the best in presenting ICIAM 95 in Berlin.

Robert E. O'Malley, Jr., University of Washington  
Chair, ICIAM 91 Program Committee

## Committee for International Conferences on Industrial and Applied Mathematics

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*Chair*

Vinicio Boffi (*SIMAI*), Consiglio Nazionale delle Ricerche

C. William Gear (*SIAM*), NEC Research Institute  
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Adriaan H.P. Van der Burgh, Delft University of Technology

Wolfgang L. Wendland (*GAMM*), Universität Stuttgart

## ICIAM Organizations

Canadian Applied Mathematics Society (*CAMS*)/  
Société Canadienne de Mathématiques Appliquées (*SCMA*)

European Consortium for Mathematics in Industry (*ECMI*)

Gesellschaft für Angewandte Mathematik und Mechanik (*GAMM*)

Institute of Mathematics and Its Applications (*IMA*)

Nordiska föreningen för Tillämpad och Industriell Matematik (*NORTIM*)

Society for Industrial and Applied Mathematics (*SIAM*)

Società Italiana di Matematica Applicata e Industriale (*SIMAI*)

Société de Mathématiques Appliquées et Industrielles (*SMAI*)

*with the cooperation of*

Institut National de Recherche en Informatique et en Automatique (*INRIA*)

**Organizational Support for ICIAM 91**

*SIAM thanks the following organizations for their help and support in making ICIAM 91 possible:*

- Air Force Office of Scientific Research  
Bellcore
- The Boeing Company  
Department of Energy
- E. I. du Pont de Nemours & Company  
Eastman Kodak Company
- GTE Laboratories Incorporated  
IBM Corporation
- National Science Foundation  
NEC Research Institute  
Office of Naval Research
- United Technologies Corporation

**Conference Overview**

**Invited Presentations (one hour each)**

Daily: 9:00 AM, 2:00 PM  
*except* Tuesday: 8:30 AM, 2:00 PM  
 Special Presentation (one hour)  
 Tuesday: 10:00 AM

**Session Breaks (one half hour each)**

Daily: 10:00 AM, 3:00 PM  
*except* Tuesday: 9:30 AM, 3:00 PM

**Minisymposia/Contributed Papers**

*(Sessions range from 2 to 3 hours; minisymposia talks are one-half hour each and contributed talks are fifteen minutes each)*

Daily: 10:30 AM, 3:30 PM  
*except* Tuesday: 11:00 AM, 3:30 PM

**Poster Presentations**

Monday-Thursday: 10:30 AM, 3:30 PM  
*except* Tuesday: 11:00 AM, 3:30 PM

**Exhibits**

Monday, July 8 — 9:00 AM - 1:00 PM, 3:00 - 5:00 PM  
 Tuesday, July 9 — 9:00 AM - 1:30 PM, 3:00 - 5:00 PM  
 Wednesday, July 10 — 9:30 AM - 1:00 PM, 3:00 - 5:00 PM  
 Thursday, July 11 — 9:30 AM - 1:00 PM, 3:00 - 5:00 PM  
 Friday, July 12 — 9:30 AM - 12:00 PM

**Social Events**

*Welcoming Reception*  
 Sunday, July 7, 1991  
 7:00 - 9:00 PM  
 Sheraton Washington Foyer

*Get Together*  
 Monday, July 8, 1991  
 6:00 - 7:00 PM  
 Exhibit Hall B/C

*ICIAM 91 Buffet Dinner*  
 Wednesday, July 10, 1991  
 7:00 - 9:30 PM  
 Sheraton Washington Ballroom  
 US\$38

This conference is being hosted by SIAM.  
 Conference sessions will be conducted in English.

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**Conference Directory**

- Headquarters Hotel** Sheraton Washington Hotel  
 2660 Woodley Road at Connecticut Ave., N.W.  
 Washington, DC 20008, USA  
 202-328-2000
- Hotels**  
 Omni Shoreham  
 2500 Calvert Street, N.W.  
 Washington, DC 20008  
 202-234-0700
- Dupont Plaza  
 1500 New Hampshire Ave., N.W.  
 Washington, DC 20036  
 202-483-6000
- Dormitory Rooms**  
 The Catholic University of America  
 620 Michigan Ave., N.E.  
 Room 108 St. Bonaventure Hall  
 Washington, DC 20064, USA  
 202-319-5615
- George Washington University  
 2121 Eye St., N.W.  
 Washington, DC 20052, USA  
 202-994-6688

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# ICIAM 91



## **How to Use this Program**

The ICIAM 91 program consists of invited presentations, minisymposia, and contributed papers (lecture and poster sessions) on a variety of subjects in applied and computational mathematics. To find your way around this program, we suggest you use the Contents on the previous page, the Program Overview (pages 3-5), and the Author Index (pages 94-111).

The Program Overview lists the ICIAM 91 sessions by subject. Sessions are coded in the overview and throughout the program by "I" for invited presentation; "M" for minisymposium; "C" for contributed paper (lecture) session; and "P" for contributed paper (poster) session.

Details of the program are in chronological order beginning on page 6. Within each of these time periods, you will find a session schedule for that period followed by descriptions of the sessions in the order: Invited Presentations, Minisymposia, Contributed Presentations and Poster Presentations.

Many of the presentations have multiple authors. For such presentations, the speaker is shown in italics. When a speaker was not indicated, the submitter is assumed to be the speaker. Where a country has not been specified it is assumed to be the United States.

*Sheraton Ballroom***M188 Fast Computational Methods for Device Design**

In the last two decades, computer-aided semiconductor device design has become an interdisciplinary research area with cooperation of physicists, electrical engineers, computer scientists, and applied mathematicians. In particular the evolution of microelectronics towards very small devices is stimulating enhanced and new mathematical methods.

The current directions of mathematical investigation are primarily concentrated on multidimensional non-linear partial differential equations and algebra with particular emphasis on solution methods implemented on modern computer architectures.

The speakers will present an overview of current work to attract the attention of applied mathematicians to an area which is at present still dominated by engineers. Numerical analysts and engineers should be brought together to foster a fruitful exchange of ideas for the solution of the many outstanding problems.

**A Collection of Iterative Algorithms for VLSI-Device Simulation** *Martin Stiftinger*, Otto Heinrichsberger and Siegfried Selberherr, Technical University of Vienna, Austria

**Finite Element and Box Method Discretization of the 3D Current Continuity Equations** Thomas Kerkhoven, University of Illinois, Urbana-Champaign

**The Role of Numerical Algorithms and Visualization in Complex Semiconductor Device Simulation** *William M. Coughran, Jr.* and Eric Grosse, AT&T Bell Laboratories, Murray Hill

**Device Simulation On Distributed Memory Machines** Kunio Hane, Keio University, Japan; *George Abe*, SONY Central Research Laboratory, Japan

Organizer:  
Siegfried Selberherr  
Technical University of  
Vienna, Austria

*Idabo Room***M189 SIAM Student Paper Competition**

Three students will present award winning papers in applied and computational mathematics. The students were chosen from among those submitting papers to the SIAM Student Paper Competition. To qualify, a student had to submit a singly-authored paper to SIAM by February 15, 1991, be a student in good standing, and at the time of submission, must not have received his/her doctorate.

Chair:  
Margaret H. Wright  
AT&T Bell Laboratories,  
Murray Hill

**Uniform Stabilization of the Euler-Bernoulli Plate with Feedback Operator Acting via Bending Moments** Mary Ann Horn, University of Virginia

**Models and Computations for Interstellar Magnetic Gas Clouds: A Variational Method** Brian C. Morris, University of Massachusetts

**Nonlinear Feedback Control Law Learning by Neural Networks: A Viability Approach** Nicholas Seube, University of Paris, France

**Contributed Presentations: Lectures 3:30 PM****Inverse Problems: Applications**C89 *Kennedy Room***Chair: Bruce Geist, Rensselaer Polytechnic Institute**

**The Effect of Structural Damping on Nodal Point Data: A Specific Case Study** *Bruce Geist*, Rensselaer Polytechnic Institute; Joyce R. McLaughlin, Rensselaer Polytechnic Institute

**Inverse Kinematics of Spatial Robots** T.C. Yih, Florida International University

**An Inverse Problem Originating from Magneto-hydrodynamics** *Elena Beretta*, Rutgers University, New Brunswick; Michael Vogelius, Rutgers University, New Brunswick

**Applications of Inverse Spectral Geometry to Problems in Elastodynamics** *Stig I. Anderson*, Chalmers University of Technology, University of Göteborg, Sweden; Christian Högfors, University of Göteborg, Sweden

**Identifying the Conductivity of a One-Dimensional Medium from Time Averaged and Undersampled Potential Data** Giovanni Crosta, Università degli Studi di Milano, Italy

**Identification of Relaxation Kernels in Materials with Memory** Maurizio Grasselli, Istituto de Analisi Numerica del CNR di Pavia, Italy

**Inversion and Identities in the Single Photon Emission Computed Tomography** Peter Kuchment, Wichita State University

**Correction of Structural Matrices from Input-Output Data** Z. Zimoch, École Centrale Paris, France

**Manifolds of Solutions of a Class of Evolution and Dynamical Equations** Georgii Sviridyuk, Chelyabinsk State University, USSR

**Determination of Unknown Radiation Terms from Measurement of Temperature at the Boundary** Abdullah Shidfar, Iran University of Science and Technology, Iran

**Identification of Natural Systems with Locally Interconnected Elements** Andrew I. Adamatzky, Leningrad University, USSR

**Inverse Problems for Kinetic Equations** Yu E. Anikonov, Siberian Branch of Academy of Sciences, USSR

**Discrete Algorithms II**C90 *Nathan Hale Room***Chair: Keh-Wei Lih, Rutgers University**

**Tours for the Traveling Salesman** Richard H. Warren, General Electric Company, King of Prussia

**Vehicle Routing Problems via Tabu Search Metaheuristic** Vitoria M. Pureza, State University of Campinas, Brazil; *Paulo M. Franca*, State University of Campinas, Brazil

**Reliability Optimization by Tabu Search** *Keh-Wei Lih*, Rutgers University, New Brunswick; Pierre Hansen, GERAD, École des Hautes, Etudes Commerciales, Canada

**A Quasiphysical Method for Solving the Covering Problem** Honghui Wan, Huazhong University of Science and Technology, People's Republic of China

**In-Place, In-Order PFAS with Unrotated Core Transforms** *Jaime Seguel*, University of Puerto Rico, Mayaguez, Puerto Rico; Veronica Celis, University of Puerto Rico, Mayaguez, Puerto Rico

**An Algorithm on Finding the Vertices Nearest to a Hypercube** *Yong Li*, Shanghai Jiaotong University, People's Republic of China; Xiaoyong Han, Shanghai Computer Software Laboratory, People's Republic of China; Feng Luo, Shanghai Computer Software Laboratory, People's Republic of China

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*Cohen, A.M.	C91	90	Fri	3:30
*Cohen, Albert	M76	44	Wed	10:30
*Cohen, Gary	C60	66	Thu	10:30
*Cohen, Malcom J.	M26	16	Mon	3:30
*Coifman, Ronald R.	I3	15	Mon	2:00
*Coifman, Ronald R.	M76	44	Wed	10:30
*Cointe, Raymond	M16	11	Mon	10:30
*Colaneri, Patrizio	C33	38	Tue	3:30
Cole, Julian D.	C47	48	Wed	10:30
*Cole, Julian D.	M152	80	Fri	10:30
Cole, Julian D.	M32	17	Mon	3:30
*Cole, Susan L.	C47	48	Wed	10:30
*Colella, David	M95	51	Wed	3:30
*Colella, Philip	M43	27	Tue	11:00
*Coleman, Thomas F.	M105	53	Wed	3:30
Coles, C.	C64	66	Thu	10:30
Collings, J.B.	M55	29	Tue	11:00
*Colombo, V.	P5	14	Mon	10:30
*Colombo, V.	P12	32	Tue	11:00
*Colonus, Fritz	M19	15	Mon	3:30
*Colton, David L.	M116	62	Thu	10:30
*Comiskey, Catherine M.	P2	13	Mon	10:30
Conn, Andrew R.	M163	82	Fri	10:30
*Conn, Andrew R.	I11	51	Wed	2:00
Conn, Andrew R.	M105	53	Wed	3:30
Conn, Andrew R.	M105	53	Wed	3:30
Conrad, Michael	C59	56	Wed	3:30
*Constapel, Rainer	M75	37	Tue	3:30
*Contreras, Martha	C8	12	Mon	10:30
*Cook, L. Pamela	M72	36	Tue	3:30
Cooke, Roger	P2	13	Mon	10:30
*Coon, Alan B.	C6	12	Mon	10:30
Copeland, Arthur H.	C94	90	Fri	3:30
Coppa, G.G.M.	P5	14	Mon	10:30
Coquel, Frederic	C12	19	Mon	3:30
*Corduneanu, Constantin	C11	19	Mon	3:30
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*Corliss, George F.	M42	27	Tue	11:00
*Coron, Francois	M84	45	Wed	10:30
Corones, James	C29	31	Tue	11:00
*Corrias, L.	P21	68	Thu	10:30
Cortina, Elsa	P13	49	Wed	10:30
*Cosner, C.	M34	18	Mon	3:30
*Costa, Oswaldo L.V.	P22	68	Thu	10:30
*Costa, Peter J.	C22	30	Tue	11:00
*Costabel, Martin	M85	45	Wed	10:30
*Cottet, Georges-Henri	M43	27	Tue	11:00
*Coughran, Jr., W.M.	M188	89	Fri	3:30
*Coughran, Jr., W.M.	M151	72	Thu	3:30
*Countryman, W.M.	P1	13	Mon	10:30
*Cox, S.J.	M13	10	Mon	10:30
Crane, Roger L.	C23	30	Tue	11:00
*Crauel, Hans	M58	34	Tue	3:30
*Crawford, Carol G.	P15	50	Wed	10:30
Crighton, D.G.	M53	29	Tue	11:00
Crise, Alessandro	C36	38	Tue	3:30
*Crispi, Guido	C36	38	Tue	3:30
Croce, Lucia Della	P5	14	Mon	10:30
*Croft, Anthony J.	C94	90	Fri	3:30
*Crosta, Giovanni	C89	89	Fri	3:30
*Cryer, Colin W.	M103	52	Wed	3:30
*Cuer, Michel	C11	19	Mon	3:30
Cui, Hongnong	P12	32	Tue	11:00
*Cumberbatch, Ellis	C2	11	Mon	10:30
*Cumberbatch, Ellis	M17	54	Wed	3:30
*Cuminato, Jose Alberto	P13	49	Wed	10:30
Curtis, Charles	P8	32	Tue	11:00
*Cutler, Colleen D.	M77	44	Wed	10:30
*Cypher, Robert	M80	45	Wed	10:30
D'Azevedo, E.	M10	10	Mon	10:30
*d'Humieres, Dominique	M138	70	Thu	3:30
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*Dabaghi, Z.B.T.	C17	20	Mon	3:30
*Dafermos, Constantine M.	M2	8	Mon	10:30
*Dagum, Leonardo B.	P10	32	Tue	11:00
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Dahlquist, Germund	M130	65	Thu	10:30
*Danial, Edward J.	C73	73	Thu	3:30
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*Danielson, Donald A.	C10	19	Mon	3:30
*Danielson, Donald A.	C65	66	Thu	10:30
*Dantas, Marcio J.H.	C74	73	Thu	3:30
*Daripa, Prabir	C91	90	Fri	3:30
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*Dassios, George	C10	19	Mon	3:30
*Dassios, George	M136	69	Thu	3:30
*Daum, F.E.	M178	87	Fri	3:30
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*Davis, Anthony M.J.	P3	14	Mon	10:30
*Davis, Timothy A.	M176	87	Fri	3:30
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*Dawson, Silvina Ponce	C30	37	Tue	3:30
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*De Andrade, Celia M.F.	C10	19	Mon	3:30
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*de Oliveira Camargo, M.A.	C72	73	Thu	3:30
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*De Piero, A.R.	C16	20	Mon	3:30
*De Piero, A.R.	M61	34	Tue	3:30
*Dean, Anthony M.	M111	54	Wed	3:30
*Dean, Nathaniel	M141	70	Thu	3:30
*Debnath, Joyati	C2	11	Mon	10:30
*Debnath, Narayan C.	C41	48	Wed	10:30
*Decker, William J.	C22	30	Tue	11:00
*Deconinck, Herman	M83	45	Wed	10:30
*Degen, W.L.F.	C26	31	Tue	11:00
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*Delfour, Michel C.	M28	17	Mon	3:30
*DeLillo, Thomas K.	C91	90	Fri	3:30
*Demidovitch, Vassili B.	C91	90	Fri	3:30
Demko, S.	C91	90	Fri	3:30
*Dendy, Joel E.	M9	9	Mon	10:30
*Deng, Youfan	M175	87	Fri	3:30
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Dennis, Jr., J.E.	C8	12	Mon	10:30
*Dennis, Jr., J.E.	M124	64	Thu	10:30
Dennis, Jr., J.E.	C8	12	Mon	10:30
Dennis, Jr., J.E.	C16	20	Mon	3:30
*Deprettere, E.F.	M159	81	Fri	10:30
*DeRose, Tony D.	M180	87	Fri	3:30
*DeRose, Tony D.	M164	82	Fri	10:30
DeSa, Colin	P5	14	Mon	10:30
*Desai, U.B.	P24	68	Thu	10:30
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*Desbarats, Alexandre	M146	71	Thu	3:30
*Devore, C.R.	M64	35	Tue	3:30
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*Dewar, James	M34	18	Mon	3:30
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*Dias, Frederic	C48	49	Wed	10:30
*Diaz, Jesus Ildefonso	M97	51	Wed	3:30
*Diener, Marc	M114	62	Thu	10:30
*Diet, Jean-Paul	M96	51	Wed	3:30
*Dikansky, Arnold	P10	32	Tue	11:00
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*Ding, Jiu	P22	68	Thu	10:30
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*Ding, Mingzhou	C30	37	Tue	3:30
*Ding, Yuan	C28	31	Tue	11:00
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*Doelman, A.	C70	72	Thu	3:30
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*Dold, J. William	M148	72	Thu	3:30
*Doll, Jr., F.A.	C9	13	Mon	10:30
*Doll, Jr., F.A.	C9	13	Mon	10:30
*Doll, Jr., F.A.	C9	13	Mon	10:30
*Domanski, Wlodzimierz	P6	31	Tue	11:00
*Domich, P.D.	M29	17	Mon	3:30
*Donato, Jerry	P22	68	Thu	10:30
*Donato, June M.	C42	48	Wed	10:30
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*Dongarra, Jack J.	M82	45	Wed	10:30
*Donnelly, Rod	C39	39	Tue	3:30
*Donoho, David L.	M12	10	Mon	10:30
*Doolen, Gary D.	M101	52	Wed	3:30
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*Dorning, John J.	M127	64	Thu	10:30
*Dorning, John J.	C77	74	Thu	3:30
*Dorning, D.	C79	74	Thu	3:30
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*Dorsey, J.F.	C91	90	Fri	3:30
*Dost, Sadik	M31	17	Mon	3:30
*Dougalis, Vassilios A.	C12	19	Mon	3:30
Dougalis, Vassilios A.	C12	19	Mon	3:30
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*Dragan, Irinel	M49	28	Tue	11:00
*Drake, John	M54	33	Tue	3:30