

Part IV

Appendices

Staff

MCSD consists of full time permanent staff located at NIST laboratories in Gaithersburg, MD and Boulder, CO. This is supplemented with a variety of faculty appointments, guest researchers, postdoctoral appointments, and student appointments. The following list reflects the status at the end of FY 2003.

Legend: F = Faculty Appointee, GR = Guest Researcher, PD = Postdoctoral Appointee, S = Student, PT= Part time

Division Staff

Ronald Boisvert, *Chief*
Robin Bickel, *Secretary*
Joyce Conlon
Jeffrey Fong
Roldan Pozo

Mathematical Modeling Group

Geoffrey McFadden, *Leader*
Bradley Alpert (Boulder)
Timothy Burns
Alfred Carasso
Andrew Dienstfrey (Boulder)
Michael Donahue
Fern Hunt
Raghu Kacker
Anthony Kearsley
Stephen Langer
Agnes O’Gallagher (Boulder)
Donald Porter

Daniel Anderson, GR
Eric Baer, S
Richard Braun, F
Stephen Bullock, PD
Christopher Copeland, S
David Cotrell, PD
Katharine Gurski, GR
Seung-Il Haan, GR
Luis Melara, PD
Bruce Murray, GR
Dianne O’Leary, F

Mathematical Software Group

Daniel Lozier, *Leader*

Marjorie McClain

Bruce Miller

William Mitchell

Bert Rust

Bonita Saunders

Joshua Chang, S

Bruce Fabijonas, F

Elaine Kim, S

Leonard Maximon, GR

Frank Olver, GR

G.W. Stewart, F

Abdou Youssef, F

Optimization and Computational Geometry Group

Ronald Boisvert, *Acting Leader*

Isabel Beichl

Javier Bernal

David Gilsinn

Emanuel Knill (Boulder)

Christoph Witzgall

Stephen Bullock, PD

Theodore Einstein, GR

Saul Gass, F

Alan Goldman, GR

James Lawrence, F

David Song, PD

Francis Sullivan, GR

Scientific Applications and Visualization Group

Judith Devaney, *Leader*

Yolanda Parker, *Office Manager*

Robert Bohn

William George

Terence Griffin

John Hagedorn

Howard Hung

John Kelso

Peter Ketcham

Adele Peskin (Boulder)
Steven Satterfield
James Sims

Other Staff Leaving the Division During FY 2003

Peggy Liller, *Secretary*
Barbara am Ende

Shirin S. Mehbraban, SURF Participant
Sheehan Olver, SURF Participant
Samuel S. Small, SURF Participant

Christian Brown, Volunteer
Harry W. Bullen, Volunteer
Joshua T. Chang, Volunteer
Sean P. Kelly, Volunteer
Eric Ma, Volunteer
Robert Xiao, Volunteer

James Blue, GR
John Gary, GR

Acronyms

ACM	Association for Computing Machinery
AMS	American Mathematical Society
AMS	Applied Mathematics Series (NIST Publications)
ANSI	American National Standards Institute
APS	American Physical Society
ATP	NIST Advanced Technology Program
BFRL	NIST Building and Fire Research Laboratory
BLAS	Basic Linear Algebra Subprograms
CARB	NIST Center for Advanced research in Biotechnology
CCS	IDA Center for Computing Sciences
CEM	computational electromagnetics
CIO	Chief Information Officer
CSTB	Centre Scientifique et Technique du Batiment
CSTL	NIST Chemical Science and Technology Laboratory
CWI	
DARPA	Defense Advanced Research Projects Agency
DIVERSE	Device Independent Virtual Environments — Reconfigurable, Scalable, Extensible (visualization software)
DLMF	Digital Library of Mathematical Functions (MCSD project)
DOD	Department of Defense
DOE	Department of Energy
DPD	dissipative particle dynamics
DSO	distributed shared object
EEEL	NIST Electronics and Electrical Engineering Laboratory
ESRF	European Synchrotron Radiation Facility
FY	fiscal year
GAMS	Guide to Available Mathematical Software
GMR	giant magneto-resistance
IDA	Institute for Defense Analysis
IT	information technology
ITL	NIST Information Technology Laboratory
IFIP	International Federation for Information Processing
IMA	Institute for Mathematics and Its Applications (Univ. of Minnesota)
JAMA	Java Matrix package
LADAR	Laser Distance and Ranging
MCSD	ITL Mathematical and Computational Sciences Division
MEL	NIST Manufacturing Engineering Laboratory
MPI	Message Passing Interface
MRAM	magnetic random access memory
MSEL	NIST Materials Science and Engineering Laboratory
NBS	National Bureau of Standards (former name of NIST)
NIST	National Institute of Standards and Technology
NSF	National Science Foundation
OOF	Object-Oriented Finite Elements (software package)

OOMMF	Object-Oriented Micromagnetic Modeling Framework (software package)
PDE	partial differential equation
PHAML	Parallel Hierarchical Adaptive Multi Level (software)
PL	NIST Physics Laboratory
QDPD	quaternion-based dissipative particle dynamics
RAVE	Reconfigurable Automatic Virtual Environment
SAVG	MCSA Scientific Applications and Visualization Group
SEM	scanning electron micrograph
SIAM	Society for Industrial and Applied Mathematics
SSS	Screen Saver Science
STEM	scanning transmission electron microscopy
SURF	Student Undergraduate Research Fellowship
SVD	singular value decomposition
TIN	triangulated irregular network
TNT	Template Numerical Toolkit
TOMS	Transactions on Mathematical Software
VCCTL	Virtual Cement and Concrete Testing Laboratory
VET	Virtual Electromagnetic Testrange
VRML	Virtual Reality Modeling Language