Topical Groups of the Society

FEW-BODY SYSTEMS AND MULTIPARTICLE DYNAMICS founded in 1985, examines the interactions of few body systems in a wide spectrum of fields including elementary particles, nuclear atomic, molecular, solid state, and astrophysics.

GRAVITATION established in 1995, focuses on experiments and observations related to the detection and interpretation of gravitational waves, experimental tests of gravitational theories, solutions to Einstein's equations, computational general relativity, relativistic astrophysics, alternative theories of gravity, classical and quantum cosmology and quantum gravity.

HADRONIC PHYSICS was formed in 2001 to provide a focus for the study of strongly interacting matter in all of its manifestations. This includes spectroscopy, lattice gauge theory, structure physics, heavy ion physics, jet physics, and QCD
at high energy and at finite temperature and density.

INSTRUMENT AND MEASUREMENT SCIENCE formed in 1984, to advance the precision of measurements and the development of instrument and measurement science. GIMS members are scattered across virtually all the physics disciplines.

MAGNETISM AND ITS APPLICATIONS established in 1996, focuses on the technological aspects and applications of magnetism by fostering interactions among multidisciplinary scientists and engineers.

PLASMA ASTROPHYSICS formed in 1998, seeks a common ground between plasma physics and astrophysics, and involves the application of fundamental concepts of plasma physics to the solution of outstanding problems in astrophysics.

PRECISION MEASUREMENT AND FUNDAMENTAL CONSTANTS established in 1987, focuses on research related to investigating and testing the fundamental laws of physics and their underlying connections, determining fundamental constants, and developing and improving basic measurement standards with special emphasis on high-precision experiments.

QUANTUM INFORMATION, CONCEPTS AND COMPUTATION formed in 2004, focuses on fundamental problems of quantum theory, such as entangled states; quantum information, including quantum cryptography; and quantum computing.

SHOCK COMPRESSION OF CONDENSED MATTER founded in 1984, promotes the development and exchange of information on the dynamic high-pressure properties of materials, shock physics, and detonation physics research.

STATISTICAL AND NONLINEAR PHYSICS TOPICAL GROUP, established in 1996, encourages research and applications in the interdisciplinary area of equilibrium statistical physics with a special emphasis on nonlinear systems.

TOPICAL GROUPS

INSTRUMENT AND MEASUREMENT SCIENCE TOPICAL GROUP
Established 1984

Chair (Past to Present)
L. Rubin
J. Schooley
J. Matey
R. Anderson
A. Clarke
G. Miller
K. Jaeger
R. Erdman
R. Soulen
B. Brandt
J. Griffith
E. Jones
R. Duncan
D. Seiler
D. Rickel
E. Palm
A. Macrander
K. Waldrip
C. MacDonald
C. Agosta

GIMS Secretary-Treasurer
R. Higgins
E. Jones
B. Brandt
A. Mandelis
C. Armstrong

SHOCK COMPRESSION OF CONDENSED MATTER TOPICAL GROUP
Established 1984

Chair (Past to Present)
W. Nellis
G. Straub
S. Schmidt
J. Forbes
Y. Gupta
L. Chhabildas
J. Johnson
D. Curran
T. Ahrens
J. Asay
J. Shaner
N. Holmes
D. Dandekar
S. Sheffield
M. Furnish
S. Bless
B. Holian
C. Tarver
J. Boteler
D. Funk II
D. Dlott

GSCCM Secretary-Treasurer
J. Forbes
S. Schmidt
E. LeMar
J. Boteler
R. Chau

FEW-BODY SYSTEMS AND MULTIPARTICLE DYNAMICS TOPICAL GROUP
Established 1985

Chair (Past to Present)
F. Levin
D. Micha
E. Redish
R. Drachman
B. Gibson
J. Macek
R. Berry
F. Gross
K. Kulander
J. Friar
C. Chandler
B. Schneider
D. Skopik
J. McGuire
V. Brown
T. Rescigno
R. Schiavilla
C. Whelan
W. Tornow
W. Reinhardt
W. Polyzou

GFB Secretary-Treasurer
T.-K. Lim
D. Kouri
C. Carlson
C. Elster

PRECISION MEASUREMENT AND FUNDAMENTAL CONSTANTS TOPICAL GROUP
Established 1987

Chair (Past to Present)
A. Rich
B. Taylor
R. Ritter
D. Bartlett
L. Hunter
E. Adelberger
G. Green
D. Heinzen
S. Lundeen
P. Bender
P. Mohr
R. Deslattes
B. Heckel
J. Faller
R. Walsworth
C. Tanner
S-A. Lee
E. Hessels
S. Lamoreaux

GPMFC Secretary-Treasurer
C.Carter
H. Gould
W. Itano
*D. Shiner
D. Church

GRAVITATION TOPICAL GROUP
Established 1995

Chair (Past to Present)
B. Berger
K. Thorne
A. Ashtekar
R. Weiss
C. Will
R. Wald
R. Price
J. Friedman
J. Isenberg
J. Pullin
E. Flanagan
D. Brill
D. Garfinkle

GGR Secretary-Treasurer
1995-1998 J. Isenberg

1999-2002 D. Garfinkle
2003-2006 P. Brady
2006- V. Sandberg

MAGNETISM AND ITS APPLICATIONS TOPICAL GROUP
Established 1996

Chair (Past to Present)
D. Jiles
C. Patton
L. Bennett
S. Foner
J. Lynn
D. Sellmyer
F. Hellman
P. Schiffer
J. Bass
J. Rhyne
D. Reich
W. Butler

GMAG Secretary-Treasurer
1996-2004 R. Van Dover
2004- C. Ross

STATISTICAL AND NONLINEAR PHYSICS TOPICAL GROUP
Established 1996

Chair (Past to Present)
K. Sreenivasen
G. Ahlers
C. Grebogi
R. Ecke
D. Campbell
R. Behringer
M. Robbins
C. Doering
H. Levine
M. C. Marchetti
S. Redner

GSNP Secretary-Treasurer
1996-2001 J. Carlson
2001-2004 J. Urbach
2004- D Lathrop

PLASMA ASTROPHYSICS
Established 1998

Chair (Past to Present)
B. Remington
J. Chen
R. Drake
E. Liang
A. Bhattacharjee
P. Bellan
P. Liewer
H. Li
S. Spangler
H. Ji

GPAP Secretary-Treasurer
1998 – 2006 S. Spangler
2006- T. Intrator

HADRONIC PHYSICS
Established 2001

Chair (Past to Present)
A. Dzierba
E. Swanson
T. Barnes
E. Kinney
C. Roberts
C. Meyer

GHP Secretary-Treasurer
S. Seidel
W. Melnitchouk

QUANTUM INFORMATION, CONCEPTS, AND COMPUTATION
Established 2004

Chair (Past to Present)
C. Bennett
C. Caves
L. Viola
D. DiVincenzo

GQI Secretary – Treasurer
2006- B. Sanders