

## STAFF MEMBERS OF THE PHYSICS DIVISION

Listed below are the staff of the Physics Division for the year ending December 31, 2001.  
The program headings indicate only the individual's current primary activity.

### SCIENTIFIC STAFF

#### EXPERIMENTAL NUCLEAR PHYSICS STAFF

#### Regular Staff

- Irshad Ahmad, Ph.D., University of California, 1966  
 John Arrington Ph.D., California Institute of Technology, 1998  
 Birger B. Back, Ph.D., University of Copenhagen, 1974  
 Michael P. Carpenter, Ph.D., University of Tennessee, 1987  
 \* Cary N. Davids, Ph.D., California Institute of Technology, 1967  
 † Stuart J. Freedman, Ph.D., University of California, 1972  
 ‡ Donald F. Geesaman, Ph.D., State University of N.Y., Stony Brook, 1976  
 § Walter F. Henning, Ph.D., Technical University of Munich, 1968  
 Roy J. Holt, Ph.D., Yale University, 1972  
 ¶ Harold E. Jackson, Jr., Ph.D., Cornell University, 1959  
 || Robert V.F. Janssens, Ph.D. Univ. Catholique de Louvain, Belgium, 1978  
 Cheng-lie Jiang, Ph.D. China Institute of Atomic Energy, 1960  
 Teng Lek Khoo, Ph.D., McMaster University, 1972  
 \*\*Walter Kutschera, Ph.D., University of Graz, Austria, 1965  
 Torben Lauritsen, Ph.D., State University of New York, 1990  
 †† Christopher J. Lister, Ph.D., University of Liverpool, 1977  
 Zheng-tian Lu, Ph.D., University of California, Berkeley, 1994  
 Eugene Moore, Ph.D., Florida State University, 1988  
 ‡‡ Jerry A. Nolen, Jr., Ph.D., Princeton University, 1965  
 Peter N. Ostroumov, Ph.D. Moscow Engineering and Physical Institute, 1982  
 Richard C. Pardo, Ph.D., University of Texas, 1976  
 David H. Potterveld, Ph.D., Caltech, 1988  
 Karl Ernst Rehm, Ph.D., Technical University, Munich, 1973  
 Paul Reimer, Ph.D. University of Illinois, 1996  
 §§ Guy Savard, Ph.D., McGill University, 1988  
 §§ John P. Schiffer, Ph.D., Yale University, 1954  
 Dariusz Seweryniak, Ph.D., Uppsala University, 1994  
 Kenneth W. Shepard, Ph.D., Stanford University, 1970  
 Kenneth Teh, Ph.D., Vanderbilt University, 1988  
 Alan H. Wuosmaa, Ph.D., University of Pennsylvania, 1989

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- \* Adjunct Professor, Vanderbilt University.  
 † On leave of absence at the University of California, Berkeley.  
 ‡ Director of the Physics Division.  
 § On leave of absence at GSI, Darmstadt.  
 ¶ Associate Director of the Physics Division. Joint appointment with the University of Chicago.  
 || Associate Director of the Physics Division. Adjunct Professor, Michigan State University and Adjoint Professor, Vanderbilt University.  
 \*\* On leave of absence at the University of Vienna.  
 †† Associate Director of the Physics Division.  
 ‡‡ Director of the ATLAS Facility. Adjunct Professor, Michigan State University.  
 §§ Joint appointment with the University of Chicago.

### Special Appointments

- \* R. Russell Betts, Ph.D., University of Pennsylvania, 1972
- Lowell M. Bollinger, Ph.D., Cornell University, 1951
- William J. Childs, Ph.D., University of Michigan, 1956
- Donald S. Gemmell, Ph.D., Australian National University, 1960
- F. Paul Mooring, Ph.D., University of Wisconsin, 1951
- † Michael Paul, Ph.D., Hebrew University of Jerusalem, 1973
- Gilbert J. Perlow, Ph.D., University of Chicago, 1940
- G. Roy Ringo, Ph.D., University of Chicago, 1940
- Ralph E. Segel, Ph.D., Johns Hopkins University, 1955
- George E. Thomas, B.A., Illinois Wesleyan, 1943
- § Ben Zeidman, Ph.D. Washington University, 1957

### THEORETICAL NUCLEAR PHYSICS STAFF

#### Regular Staff

- Richard R. Chasman, Ph.D., University of California, 1959
- Henning Esbensen, Ph.D., University of Aarhus, 1977
- ¶ Tsung-Shung Harry Lee, Ph.D., University of Pittsburgh, 1973
- Steven C. Pieper, Ph.D., University of Illinois, 1970
- Craig D. Roberts, Ph.D., Flinders University of South Australia, 1989
- Robert B. Wiringa, Ph.D., University of Illinois, 1978

#### Special Appointments

- Paul Benioff, Ph.D., University of California, 1959
- Arnold R. Bodmer, Ph.D., Manchester University, 1953
- Fritz Coester, Ph.D., University of Zurich, 1944
- Mitio Inokuti, Ph.D., University of Tokyo, 1962
- Dieter Kurath, Ph.D., University of Chicago, 1951
- Robert D. Lawson, Ph.D. Stanford University, 1953
- Harry J. Lipkin, Ph.D., Princeton University, 1950
- || Vijay Pandharipande, Ph.D., University of Bombay, 1969
- Murray Peshkin, Ph.D., Cornell University, 1951

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- \* Special Term Appointee from the University of Illinois-Chicago.
  - † Special Term Appointee from the Hebrew University of Jerusalem.
  - § Special Term Appointee. Adjunct Professor, Hampton University.
  - ¶ Adjunct Professor, University of Pittsburgh.
  - || Special Term Appointee from the University of Illinois, Urbana.

## TEMPORARY APPOINTMENTS

**Postdoctoral Appointees**

- \* John Arrington (from California Institute of Technology, Pasadena, CA):  
Medium-energy physics.  
(June 1998--December 2000)
- Joseph A. Caggiano (from Michigan State University, E. Lansing, MI):  
Heavy-ion research at ATLAS.  
(March 1999--June 2001)
- Philippe Collon (from University of Vienna, Austria):  
Heavy-ion research at ATLAS.  
(November 1999—June 2001)
- Frank Dohrmann (from Hamburg University, Germany):  
Medium-energy physics.  
(January 2000—December 2001 )
- Nigel George (from Brookhaven National Laboratory, Upton, NY):  
Medium-energy physics.  
(May 1999—September 2001)
- Kawtar Hafidi (from CEN, Saclay, France):  
Medium-energy physics.  
(November 1999- )
- Martin Hecht (from University of Melbourne, Australia):  
Theoretical studies.  
(January 2000—December 2001)
- † Andreas Heinz (from GSI, Darmstadt, Germany):  
Heavy-ion research at ATLAS.  
(February 1999- )
- David Jenkins (University of York, UK):  
Heavy-ion research at ATLAS.  
(January 2000-- )
- Michael Kelly (from University of Washington, Seattle, WA):  
Heavy-ion research at ATLAS.  
(June 1999- )
- Filipe G. Kondev (from Australian National University, Canberra, Australia):  
Heavy-ion research at ATLAS.  
(February 1999—February 2001)

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\* Joined regular staff in January 2001

† Enrico Fermi Scholar

Yimin Li (from Peking University, China):  
Medium-energy physics.  
(February 1999-- )

Bogdan Mihaila (from University of New Hampshire, Durham, NH):  
Theoretical studies.  
(October 2000-- )

Douglas Moehs (from Texas A&M University, College Station, TX):  
ATLAS operations and development.  
(August 1998—May 2001)

Ian Moore (Shuster Laboratory, UK):  
Medium-energy physics.  
(November 2001-- )

Gopal Mukherjee (from University of Massachusetts, Lowell, MA):  
Heavy-ion research at ATLAS.  
(October 2001-- )

Brahim Mustapha (from University of Paris, France):  
ATLAS operations and development.  
(May 2000-- )

Nikolai Vinogradov (from Moscow Engineering Physical Institute, Russia):  
ATLAS operation and development.  
(November 2001-- )

Krishni Wijesooria (from Jefferson Laboratory, Newport News, VA):  
Medium-energy physics.  
(October 2000-- )

**TECHNICAL AND ENGINEERING STAFF**  
(and areas of activity)

Kevin G. Bailey (B.S. University of Nebraska, 1989).  
Technical assistance, medium-energy physics.

\* Peter J. Billquist  
ECR heavy-ion source, ATLAS operation.

John M. Bogaty (A.A.S. DeVry, 1961).  
Electrical systems, ATLAS operation and development.

Benny E. Clift (A.S.E.E., DeVry, 1959).  
Electrical systems, ATLAS operation and development.

† Joseph Falout (B.S.M.E. University of Illinois, 1970).  
Experimental equipment design.

Joel Fuerst (MSME, Northwestern University, 1990).  
Cryogenic development at ATLAS.

John P. Greene (M.S. DePaul University, 1982).  
Target preparation.

† Ray E. Harden (A.A.S. Milwaukee School of Engineering, 1957).  
ATLAS operator

† Dale J. Henderson (B.S. Elmhurst College, 1951).  
Detector development, technical assistance, heavy-ion physics.

James M. Joswick (A.A.S. Milwaukee School of Engineering, 1964).  
ATLAS experimental equipment maintenance, technical assistance, heavy-ion physics.

Mark Kedzie  
ATLAS experimental equipment development.

† Raymond B. Kickert  
ATLAS experimental equipment maintenance, technical assistance, heavy-ion physics.

† Paul Markovich (B.S. Purdue University, 1972).  
Surface chemistry, ATLAS development and operation.

Thomas P. Mullen (B.S. Marquette University, 1966).  
Division ESH/QA engineer.

Floyd Munson, Jr. (A.A.S. DeVry, 1966, B.S. Lewis University, 1993).  
Control system for ATLAS.

Bruce G. Nardi (A.A.S. Morton Jr. College, 1967; A.A.S. DeVry, 1969).  
Electronics design and maintenance.

Tom O'Connor (M.S. DePaul University, 1995).  
Technical assistance, medium-energy physics.

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\* In charge of Dynamitron operations.

† Special Term Appointee.

Tad Pennington (M.S. University of Missouri, 1989; M.S. University of Alabama, 1998)

Detector development, technical assistance, heavy-ion physics.

Deborah Quock (M.S. Rice University, 1985)

Technical assistance, ATLAS control system.

Sergey Sharamentov (MS, Moscow Engineering Physical Institute, 1976).

Electrical systems, ATLAS operation and development.

James R. Specht (A.A.S. DeVry, 1964).

Cryogenics engineer. ATLAS development and operation.

Philip Strickhorn (B.S. DeVry, 1990).

Electrical and technical assistance with ATLAS operations.

Richard Vondrasek (B.S. University of Chicago, 1990).

ATLAS operator.

Philip R. Wilt (Johnstown Technical School 1973).

Electronics design and maintenance.

Bruce J. Zabransky (M.S. University of Illinois, Chicago, 1973).

Mechanical Engineer.

Gary P. Zinkann (B.S. DeVry, 1975).

ATLAS operations supervisor.

### ADMINISTRATIVE STAFF

\* Allan Bernstein, M.B.A., Rosary College, 1986

\* James E. Nelson, B.A., University of Illinois, 1975

† Karen J. Thayer

### VISITORS AND STUDENTS

#### Long-Term Visitors (at Argonne more than 4 months)

Anatolijs Afanasjevs (from University of Notre Dame, IN):

Theoretical physics studies.

(July 2001-- )

Vladislav Asseev (from Institute for Nuclear Research of Russian Academy of Sciences, Russia)

Accelerator development.

(January-July 2000; May-August 2001)

Jason Clark (from University of Manitoba, Canada):

Heavy-ion research at ATLAS.

(May 1999- )

Moulay Ahmed El Alaoui (from Laboratory for Theoretical Physics, Morocco):

Medium-energy physics.

(February 2001-- )

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\* Assistant Director of the Physics Division.

† Special Term Appointee.

Itacil Gomes (from Technology Division, Argonne National Laboratory)  
 Linac development.  
 (September 2000-- )

Burt Holzmann (from University of Chicago, Chicago, IL):  
 Heavy-ion research at ATLAS.  
 (October 2001-- )

Ioana Mihaila (from Coastal Carolina University, Conway, SC):  
 Theoretical physics studies.  
 (November 2001-- )

Peter Mueller (from Johannes Gutenberg University, Mainz, Germany):  
 Medium-energy physics.  
 (November 2001-- )

Ichiro Nishinaka (from Tokyo Metropolitan University, Japan):  
 Heavy-ion research at ATLAS.  
 (March—September 2001)

Iouri Sanjiev (from St. Petersburg Nucl. Phys. Institute, Gatchina, Leningrad, Russia):  
 Medium energy studies.  
 (November 2000 )

Stefan W. Schramm (from University of Frankfurt, Germany):  
 Theoretical physics studies.  
 (November 2001-- )

\* Sergey Sharamentov (from Institute for Nucl. Phys. Of the Russian Acad. of Sci., Moscow, Russia):  
 Linac development.  
 (October 2000 – October 2001)

Joseph V. Vaz (from University of Manitoba, Canada):  
 Heavy-ion research at ATLAS.  
 (November 1999—November 2001)

Jicheng Wang (from University of Manitoba, Canada):  
 Heavy-ion research at ATLAS.  
 (January 2001-- )

Andreas Woehr (from University of Maryland, College Park, MD):  
 Heavy-ion research at ATLAS.  
 (January 2001-- )

### Short-Term Visitors (at ANL for less than 4 months at a time)

† Nour-eddi Berrah (from Western Michigan University, Kalamazoo, MI):  
 Atomic physics research.  
 (October 1991-- )

Chantal Boudreau (from McGill University, Montreal, Quebec):  
 Heavy-ion research at ATLAS.  
 (May 2000—April 2001; September 2001-- )

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\* Joined regular staff October 2001

† Guest Faculty Research Participant

William Detmold (from University of Adelaide, Australia):  
Theoretical physics studies.  
(July—September 2001)

Thomas Dombeck (from University of Chicago, Chicago, IL):  
Heavy-ion research.  
(January 2000-- )

\* Christopher Fasano (from Monmouth College, Monmouth, IL):  
Theoretical studies.  
(February 1999- )

Susan Fischer (from DePaul University, Chicago, IL):  
Heavy-ion research at ATLAS.  
(October 1998-- )

Michael Froese (from University of Manitoba, Canada):  
Heavy-ion research at ATLAS.  
(May 2001-- )

Clive Halliwell (from University of Illinois, Chicago, IL):  
Heavy-ion research at ATLAS.  
(June 1998—June 2001)

Jeffrey Hangst (from University of Aarhus, Denmark):  
Heavy-ion research at ATLAS.  
(April 1995—September 2001)

David J. Hofman (from University of Illinois, Chicago, IL):  
Heavy-ion research at ATLAS.  
(September 2000-- )

David Jenkins (from University of York, UK):  
Heavy-ion research at ATLAS.  
(February 2000)

Bruno Julia Diaz (from University of Salamanca):  
Theoretical physics studies.  
(October—December 2001)

Leonard Kalinine (from Russian Institute of High Power Radio Equipment, Russia):  
Accelerator development.  
(July--August 2000; August—October 2001)

\* Judith Katzy (from University of Illinois, Chicago, IL):  
Heavy-ion research at ATLAS.  
(February 1998-- )

Andre Kolomiets (from ITEP, Russia):  
Accelerator development.  
(July-October 2000; November 2000-- )

\* Donald McLeod (from University of Illinois, Chicago, IL):  
Heavy-ion research at ATLAS.  
(June 1994-- )

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\* Guest Faculty Research Participant.



Sekazi Mtingwa (from North Carolina A&T State University, Greensboro, NC):  
Heavy-ion research at ATLAS.  
(July—August 2001)

Rachid Nouicer (from University of Chicago, Chicago, IL):  
Heavy-ion research at ATLAS.  
(April 1998-- )

\* David Smith (from University of Vermont, Storrs, VT):  
Theoretical physics studies.  
(February 2000-- )

Qamar Usmani (from University of Putra, Malaysia):  
Theoretical physics studies.  
(April-May 2001)

### Resident Graduate Students

Peter Cabauy (from University of Michigan, Ann Arbor, MI):  
Theoretical studies.  
(February-September 2000; January 2001— )

David Gaskell (from Oregon State University, Corvallis, OR):  
Medium-energy physics.  
(September 1998—May 2001)

Mauricio Portillo (from Michigan State University, E. Lansing, MI):  
Accelerator development.  
(September 1995-- )

Issam Qattan (from Northwestern University, Evanston, IL):  
Medium-energy physics.  
(August 2001-- )

Jennifer Ressler (from University of Maryland, College Park, MD):  
Heavy-ion research at ATLAS.  
(January 1999--July 2001)

Elaine Schulte (from University of Illinois, Urbana, IL):  
Medium-energy studies.  
(August 2000-- )

### Guest Graduate Students

Khalefeh Abu Saleem (from Illinois Institute of Technology, Chicago, IL):  
Heavy-ion research at ATLAS.  
(June 1999- )

Philippe Coulombe-Pontbriand (from McGill University, Montreal, Quebec, Canada):  
Heavy-ion research at ATLAS.  
(May—August 2001)

Xu Du (from Northwestern University, Evanston, IL):  
Medium-energy physics.  
(June 1999- )

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\* Guest Faculty Research Participant.

Andrew Geraci (from University of Chicago, Chicago, IL):  
Accelerator development.  
(December 1999- )

Louis Jisonna (from Northwestern University, Evanston, IL):  
Heavy-ion research at ATLAS.  
(June 2000-- )

Masaharu Nakagawa (from Kyoto University, Japan):  
Linac accelerator development.  
(September—December 2001)

Iouri Sanjiev (from DESY Laboratory, Hamburg, Germany):  
Medium-energy studies.  
(November 2000-- )

Christian Trempe (from McGill University, Montreal, QC):  
Heavy-ion research at ATLAS.  
(May-August 2000)

Li-Bang Wang (from University of Illinois, Urbana, IL):  
Medium-energy studies.  
(September 2001-- )

### Undergraduate Students

Martin Alcorta (University of Chicago)  
John Amann (DePaul University)  
David Bopp (North Central College)  
Ivo Calderin (University of Miami, Coral Gables)  
Stacy Dean (Saint Xavier College)  
Kara Eder (St. Xavier College)  
Javier Figueroa (Benedictine University)  
Adam Frankel (Cornell University)  
Rachel Gabor (Harvey Mudd College)  
William Grimes (Monmouth College)  
Teresa Haslinger (Richard J. Daley College)  
Andy Hernandez (Harry S. Truman College)  
Nikola Kunovski (North Central College)  
Clint Law (Monmouth College)  
Jeffrey Montgomery (New Mexico State University)  
Chad Muir (North Central College)  
Janelle Neubauer (North Central College)  
Okechukwa Okafor (Southern University)  
Gabriel Possin (North Central College)  
Matthew Sunnott (North Central College)  
Barbara Truett (Purdue University, Calumet)