

## STAFF MEMBERS OF THE PHYSICS DIVISION

Listed below are the staff of the Physics Division for the year ending December 31, 1999.  
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  
 Birger B. Back, Ph.D., University of Copenhagen, 1974  
 \* R. Russell Betts, Ph.D., University of Pennsylvania, 1972  
 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  
 Donald S. Gemmell, Ph.D., Australian National University, 1960  
 § Walter F. Henning, Ph.D., Technical University of Munich, 1968  
 David J. Hofman, Ph.D., State University of New York, Stony Brook, 1994  
 ¶ 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  
 †† Jerry A. Nolen, Jr., Ph.D., Princeton University, 1965  
 Thomas P. O'Neill, Ph.D., California Institute of Technology, 1994  
 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

- 
- \* Joint appointment with the University of Illinois-Chicago.  
 † Adjunct Professor, Vanderbilt University.  
 ‡ On leave of absence at the University of California, Berkeley.  
 § Director of the Physics Division until November 1999. On leave of absence at GSI, Darmstadt.  
 ¶ Associate Director of the Physics Division. Joint appointment with the University of Chicago.  
 || Adjunct Professor, North Carolina State University and Adjoint Professor, Vanderbilt University.  
 \*\* On leave of absence at the University of Vienna.  
 †† Director of the ATLAS Facility. Adjunct Professor, Michigan State University.

### Special Appointments

- Lowell M. Bollinger, Ph.D., Cornell University, 1951
- William J. Childs, Ph.D., University of Michigan, 1956
- 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 T. 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

- 
- \* Special Term Appointee from the Hebrew University of Jerusalem, Israel.
  - † 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-- )

Jacques Bloch (from University of Durham, NC.):  
Theoretical physics studies.  
(September 1998-December 1999)

Joseph A. Caggiano (from Michigan State University, E. Lansing, MI):  
Heavy-Ion Research at ATLAS  
(March 1999- )

Philippe Collon (from University of Vienna, Austria):  
Heavy-ion research at ATLAS  
(November 1999- )

Chun-Yen Chen (from Kansas State University, Manhattan, KS):  
Medium-energy physics.  
(March 1998-- )

Dirk De Schepper (from MIT, Cambridge, MA):  
Medium-energy physics.  
(May 1997-- )

Nigel George (from Brookhaven National Laboratory, Upton, NY):  
Medium-energy physics.  
(May 1999- )

Kawtar Hafidi (from CEN, Saclay, France):  
Medium-energy physics.  
(November 1999- )

Andreas Heinz (from GSI, Darmstadt, Germany):  
Heavy-ion research at ATLAS.  
(February 1999- )

Robert Kaye (from Florida State University, Tallahassee, FL):  
Linac development.  
(April 1998—July 1999)

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- )

Yimin Li (from Peking University, China):

Medium-energy physics.  
(February 1999- )

Douglas Moehs (from Texas A&M University, College Station, TX):

ATLAS operations and development.  
(August 1998-- )

Bryon Mueller (from California Institute of Technology, Pasadena, CA):

Medium-energy physics.  
(June 1997-- )

Maria Petra (from University of Illinois, Urbana, IL):

ATLAS operations and development.  
(February 1998-- )

Riad Rejoub (from University of Nevada, Reno, NV):

ATLAS Operations and development.  
(June 1998—October 1999)

Renato Roncaglia (from Indiana University, Bloomington, IN):

Theoretical studies.  
(September 1997—September 1999)

Sebastian Schmidt (from University of Rostock, Germany):

Theoretical studies.  
(February 1999- )

\* Jazmin Schwartz (from Yale University, New Haven, CT):

Heavy-ion research at ATLAS.  
(August 1999- )

Alejandro Sonzogni (from University of Washington, Seattle, WA):

Heavy-ion research at ATLAS.  
(May 1997—August 1999)

Juha Uusitalo (from University of Jyvaskyla, Jyvaskyla, Finland):

Heavy-ion research at ATLAS.  
(April 1997—April 1999)

Kalman Varga (from Atomki, Debracen, Hungary):

Theoretical studies.  
(April 1998-- )

Ingo Wiedenhover (from University of Cologne, Cologne, France):

Heavy-ion research at ATLAS.  
(September 1997-- )

---

\*Resident Graduate Student until August 1999.

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

- Kevin G. Bailey (B.S. University of Nebraska, 1989).  
Technical assistance, medium-energy physics.
- Brian T. Batzka (B.S. University of Houston, 1992).  
ATLAS lead operator.
- \* 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.
- 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.
- † 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.

---

\* 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.

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)

Jason Clark (from University of Manitoba, Canada):  
Heavy-ion research at ATLAS.  
(May 1999- )

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

Hiroshi Fukutani (from University of Manitoba, Canada):  
Heavy-ion research at ATLAS.  
(May 1998—June 1999)

---

\*Assistant Division Director

†Special Term Appointee

Subhendu Ghosh (from Nuclear Science Centre, New Delhi, India):  
ATLAS development.  
(August 1997—August 1999)

Boris Harss (from Technical University of Munich, Germany):  
Heavy-ion research at ATLAS.  
(June 1997—October 1999)

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

Michael Maier (from University of Heidelberg, Germany):  
Heavy-ion research at ATLAS.  
(April-October 1999)

Daniel Martin (from McGill University, Montreal, Quebec):  
Heavy-ion research at ATLAS.  
(November 1998—January 1999)

† Peter N. Ostroumov (from Moscow Engineering and Physical Institute, Russia):  
ATLAS development.  
(June-October 1999)

Gian-Luca Poli (from University of Milan, Italy):  
Heavy-ion research at ATLAS.  
(December 1999- )

Prakash Potukuchi (from Nuclear Science Centre, New Delhi, India):  
ATLAS development.  
(March 1996—September 1999)

Kumar Sharma (from University of Manitoba, Canada):  
Heavy-ion research at ATLAS.  
(July 1998-- )

Sunniva Siem (from University of Oslo, Norway):  
Heavy-ion research at ATLAS.  
(January 1998—August 1999)

Rolf Siemssen (from KVI, Groningen, Netherlands):  
Heavy ion rresearch at ATLAS.  
(October 1998-- )

James Stewart (from University of Liverpool, UK):  
Medium-energy physics.  
(March 1998—March 1999)

Joseph V. Vaz (from Universit of Manitoba, Canada):  
Heavy-ion Research at ATLAS.  
(November 1999- )

---

\*Guest Faculaty Research Participant.

†Joined regular staff November 1999.

**Short-Term Visitors** (at ANL less than 4 months)

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

Chantal Boudreau (from McGill University, Montreal, Quebec):  
Heavy-ion research at ATLAS.  
(June-August 1999)

Scott Cohen (from University of Portland, Portland, OR):  
Theoretical studies.  
(May-June 1999)

Frank Dohrmann (from University of Hamburg, Germany):  
Medium-energy physics.  
(October-December 1999)

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

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

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

- \* Edward Hohman (York Township High School, Lyons, IL):  
Summer student coordinator.  
(July 1999)

Mikhail Ivanov (JINR, Dubna, Russia):  
Nuclear theory studies.  
(September 1999)

Yori Kalinovsky (from Bogoliubov Lab. for Theoretical Physics, Russia):  
Theoretical studies.  
(April-May 1999)

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

- \* Wojciech Kucewicz (University of Illinois, Chicago, IL):  
Heavy-ion research at ATLAS.  
(April 1998-- )

- 
- \* Guest Faculty Research Participant.



Daniel Martin (from McGill University, Montreal, Quebec):  
Heavy-ion research at ATLAS.  
(November 1998-January 1999)

Falk Meissner (from DESY, Hamburg, Germany):  
Medium-energy physics.  
(March 1999)

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

Yau Wah (University of Chicago, Chicago, IL):  
Heavy-ion research at ATLAS.  
(January 1998-- )

### Resident Graduate Students

Hanan Amro (North Carolina State University, Raleigh, NC ):  
Heavy-ion research at ATLAS.  
(January 1995-August 1999)

Larry Todd Brown (Vanderbilt University, Nashville, TN):  
FMA development at ATLAS  
(January 1994—December 1999)

Peter Cabauy (from University of Michigan, Ann Arbor, MI):  
Theoretical studies.  
(May-November 1999)

Patrick Crotty (University of Chicago, Chicago, IL):  
Heavy-ion research at ATLAS.  
(January 1998-January 1999)

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

Burt Holzman (University of Illinois, Chicago, IL):  
Heavy-ion research at ATLAS.  
(June 1997-- )

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

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

\* Jazmin Schwartz (Yale University, New Haven, CT):  
Heavy-ion research at ATLAS.  
(May 1995—August 1999)

---

\*Postdoctoral appointee as of August 1999.

### Guest Graduate Students

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

Francesca Borasi (University of Milan, Milan, Italy):  
Heavy-ion research at ATLAS.  
(November 1997—May 1999)

Andrew Cassidy (from McGill University, Montreal, Quebec):  
Heavy-ion research at ATLAS.  
(June-August 1999)

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

Dipangkar Dutta (Northwestern University, Evanston, Illinois):  
Medium-energy studies.  
(June 1994—December 1999)

William Lee (from Georgia State University, Atlanta, GA):  
Medium-energy physics.  
(September-December 1999)

Kenneth Nollett (University of Chicago, Chicago, IL)  
Theoretical studies.  
(May 1997—June 1999)

### Undergraduate Students

Martin Alcorta (University of Chicago)  
Teresa Barlow (Illinois Benedictine College)  
Nathaniel Burke (North Central College)  
Bobby Chapin (University of St. Francis)  
Edward Collins (Tulane University)  
Joseph Czernick (Benedictine University)  
Scott Davis (University of Illinois-Urbana)  
Sorge Diaz (Florida International University)  
Jessica Dunmore (University of Hartford)  
Javier Figueroa (Benedictine University)  
Juan Figueroa (Benedictine University)  
Eric Hemmeter (Bates College)  
Lisa Lim (North Central College)  
Brian Napolitano (College of DuPage)  
Jennifer Nelson (University of Illinois-Urbana)  
Jason Noeth (St. Norbert College)  
Timothy Peceniak (North Central College)  
Keri Unterzuber (North-Central College)  
Michael Witt (North Central College)

**Pre-College Program** (Just Graduated from High School)  
(June--August 1999)

Lindsay Deremer (Oak Park-River Forest High School)

Matthew Dickerson (Hinsdale Central High School)

Alice Lam (Downers Grove North High School)

Scott Styles (Bolingbrook High School)

Richard Vanswol (Chicago Christian High School)

**High School Student Aide**

Silvia Palomino (Joliet Central High School)

Angela Baity (Plainfield High School)

