Directions from Red Roof Inn/
Parking information

Parking is available in the Holmes Student Center Visitor Parking Lot on both days. Participants will be able to park in the parking garage located at the corner of Normal Road and Locust Street at no charge on Saturday morning.

**TO THE HOLMES STUDENT CENTER VISITOR PARKING LOT**

Turn right onto Illinois Route 38 (Lincoln Highway) to Carroll Avenue. Parking lot will be on your left.

**TO WIRTZ HALL (FRIDAY EVENTS)**

Turn right onto Illinois Route 38 (Lincoln Highway) and get into the left lane. Turn left onto Annie Glidden Road and stay in the right lane. Turn right onto Lucinda Avenue and follow for a half mile until you get to Wirtz Drive. Turn right onto Wirtz Drive. Wirtz Hall will be on your left.

**TO LATOURETTE HALL (SATURDAY MORNING EVENTS)**

Turn right onto Illinois Route 38 (Lincoln Highway) to Normal Road. Turn left into parking garage. LaTourette Hall will be across the street.

Meeting Locations

1. **Holmes Student Center** — Thursday registration, Thursday’s public presentation
2. **Wirtz Hall** — Friday registration and coffee break; Friday Sessions A, B, C and D
3. **Red Roof Inn** — Friday poster session, Friday banquet and keynote speaker
4. **LaTourette Hall** — Saturday registration and coffee break; Saturday session E and wrap-up session
5. **Convocation Center** — Saturday STEMfest

NIU interactive map available at [go.niu.edu/imap](http://go.niu.edu/imap)
NIU printable map available at [go.niu.edu/pmap](http://go.niu.edu/pmap)

Meeting Registration

- Thursday from 5:30-7 p.m. in the Holmes Student Center Skyroom
- Friday from 7:30-8 a.m. in the lobby of Wirtz Hall
- Saturday from 9-10 a.m. in the lobby of LaTourette Hall

*Registration payment can be made in the form of cash or check, payable to the American Physical Society.*
Schedule of Events

The official, up-to-date schedule is available at go.niu.edu/2016-aps-meeting

THURSDAY, OCTOBER 6
5:30 p.m. Registration/Check-In
Holmes Student Center Skyroom
7 p.m. “Beaming Into the Heart of Matter and Life”
Plenary Lecture
by Swapan Chattopadhyah
Professor and Director of Accelerator Research at NIU
Sponsored by STEMfest and Sigma Xi Honor Fraternity

FRIDAY, OCTOBER 7
7:30 a.m. Registration/Check-In
Wirtz Hall Lobby
Continental breakfast available
8 a.m. Session A
Education/Particle/Nuclear
Wirtz Hall 103B
9:30 a.m. Break
Wirtz Lobby
10 a.m. Session B
Condensed Matter/AMO
Wirtz Hall 103B
11:30 a.m. Lunch on your own
A listing of local restaurants will be available
11:30 a.m. Lunch for graduate students interested in learning more about our research clusters (INSET and NICADD) and doctoral programs
Gilbert Hall Cafeteria
Sponsored by the NIU School of Graduate Studies
1 p.m. Session C
Particle/Nuclear
Wirtz Hall 101
2:30 p.m. Coffee break
Wirtz Hall Lobby
3 p.m. Session D
Condensed Matter/Interdisciplinary
Wirtz Hall 101
5:30 p.m. Poster Session
Lincoln Room, Red Roof Inn
7 p.m. Banquet Dinner
Banquet Room, Red Roof Inn
8 p.m. “Next Generation Energy Storage” Plenary Presentation
by George Crabtree
Argonne National Laboratory

SATURDAY, OCTOBER 8
9 a.m. Registration/Check-In
LaTourette Hall lobby
Continental breakfast available
10 a.m. Session E
Astrophysics/Beams/Accelerators
LaTourette Hall 200
11:30 a.m. Poster awards and wrap-up session
LaTourette Hall 200
Noon Tours of NIU lab facilities
Noon Visit to STEMfest
Convocation Center
Food will be available for purchase
Swapan Chattopadhyay is internationally known for helping break new ground in the fields of accelerator and beam physics, having made significant contributions to the development of accelerators worldwide for particle physics, nuclear physics and materials science. He has directly contributed to the development of many accelerators around the world — the Super Proton-Antiproton Synchrotron at CERN, the Advanced Light Source at Berkeley, the asymmetric-energy electron-positron collider PEP-II at Stanford, the Continuous Electron Beam Accelerator facility (CEBAF) at Jefferson Lab and the Free-Electron Lasers at Jefferson and Daresbury Laboratories.

He currently holds a joint appointment between Northern Illinois University and Fermi National Accelerator Laboratory (Fermilab) where he is a distinguished scientist, member of the director’s senior leadership team and director of the Cooperative Research and Development Agreement between Fermilab and NIU.

Prior to joining NIU, Dr. Chattopadhyay served as the inaugural director of the Cockcroft Institute, a leading international center for research, design and development of particle accelerators in United Kingdom. He also served as the Sir John Douglas Cockcroft Chair of Physics at the universities of Liverpool, Manchester and Lancaster. Chattopadhyay has also served as the associate director of the Thomas Jefferson National Accelerator Facility in Newport News, Virginia; founder and director of the Center for Beam Physics at Lawrence Berkeley National Laboratory; and Founding Director (CBP), Senior Scientist, Deputy for General Sciences and Professor in the Graduate School, Lawrence Berkeley National Laboratory and University of California, Berkeley.

He is a fellow of the American Physical Society, American Association for the Advancement of Science, Institute of Physics (U.K.) and Royal Society of Arts, Manufactures and Commerce (U.K.) and a member of many international panels and committees, including the “International Committee for Future Accelerators” and the DESY Science Council. He had served as the vice chair, chair elect, chair, and past chair of the American Physical Society’s Division of Physics of Beams (2007–2011). He has mentored many scientists and engineers across the globe including Asia, North America and Europe.

Keynote Speaker
THURSDAY EVENING ADDRESS

“Beaming Into the Heart of Matter and Life”

Swapan Chattopadhyay
Professor and Director of Accelerator Research at NIU,
APS Fellow and past chair of the APS Division of Physics Beams
Keynote speaker
FRIDAY EVENING BANQUET ADDRESS

“Next Generation Energy Storage”

George W. Crabtree
Senior Scientist, APS Fellow, Argonne Distinguished Fellow, Associate Division Director in the Materials Science Division at Argonne National Laboratory

In addition to his work at Argonne National Laboratory, George Crabtree has served as chairman of the division of condensed matter of the American Physical Society, as a founding editor of the scientific journal Physica C, as divisional associate editor of Physical Review Letters, as chair of the advisory committee for the National Magnet Laboratory in Tallahassee, Florida, and as editor of several review issues of Physica C devoted to superconductivity.

He has published more than 350 papers in leading scientific journals, has collected over 14,000 career citations, and has given approximately 100 invited talks at national and international scientific conferences. His research interests include materials science, sustainable energy, nanoscale superconductors and magnets, vortex matter in superconductors and highly correlated electrons in metals. He has led workshops for the Department of Energy on hydrogen, solar energy, superconductivity, and materials under extreme environments, and co-chaired the Undersecretary of Energy’s assessment of DOE’s Applied Energy Programs. He has testified before the U.S. Congress on the hydrogen economy and on meeting sustainable energy challenges.

Dr. Crabtree has received many accolades and awards for his research, most recently the Kammerlingh Onnes Prize in 2003 for his work on the physics of vortices in high temperature superconductors. This prestigious prize is awarded once every three years; Dr. Crabtree is its second recipient. He has won the University of Chicago Award for Distinguished Performance at Argonne twice, and the U.S. Department of Energy’s Award for Outstanding Scientific Accomplishment in Solid State Physics four times. He has an R&D 100 Award for his pioneering development of Magnetic Flux Imaging Systems. He is a fellow of the American Physical Society, a charter member of ISI’s Highly Cited Researchers in Physics and a member of the U.S. National Academy of Sciences.
Presenter Instructions

Contributed talks are 10 minutes long, with two additional minutes allocated for questions. Invited talks are 30 minutes long, with five additional minutes allocated for questions. Under no circumstances will speakers be allowed to exceed their total allocated time.

When preparing your talk, please bear into consideration that the audience will be significantly more diverse than in a topical meeting.

Each conference room will be equipped with a PC running Windows 7, Office 2010/2013 and Acrobat Reader. Presenters are asked to bring their talk in a USB drive to the session chairs at least 20 minutes prior to the beginning of their session to load the talk into the session computer. Due to the tight schedule it will not be possible for speakers to connect their own laptop to the projector.

Posters will be mounted on 3 foot wide by 4 foot high panels. Posters will be disassembled on Friday at 10:30 p.m.

Special Programs

An informational lunch for students interested in graduate research opportunities available at NIU will be held on Friday at 11:30 a.m. in Gilbert Hall Cafeteria.

Tours of NIU lab facilities will be available after Saturday’s E and wrap-up sessions.

Conference attendees are invited to attend STEMfest at noon Saturday at the Convocation Center. STEMfest is an annual free event celebrating innovations in science, technology, engineering and mathematics (STEM). Northern Illinois University STEM departments, student groups, regional corporations, museums, educators and national labs are joining forces to present hundreds of activities that range in complexity to entertain people of all ages. The goal of STEMfest is to increase awareness of the critical role science and other STEM fields play in our world every day. Food is available at the Convocation Center for purchase.

Important Contacts

NIU Physics Department .................................................. 815-753-6415
NIU Police (non-emergency) ........................................... 815-753-1212
Red Roof Inn, DeKalb .................................................... 815-758-8661

2016 American Physical Society Prairie Section Meeting
Northern Illinois University
October 6-8, 2016

Conference Chair:
Lawrence Lurio
Chair, Department of Physics, Northern Illinois University

SPECIAL THANKS TO OUR PARTNERS AND SPONSORS
College of Liberal Arts and Sciences, NIU School of Graduate Studies, STEMfest, TeachSpin, Inc., and Sigma Xi Honor Fraternity

go.niu.edu/2016-aps-meeting
About NIU Physics.

The foundation of NIU Physics is rooted in our high-quality, research-oriented, student-focused faculty, who have earned high recognition. Our department is to eight presidential research professorships, one presidential teaching professorship and two board of trustees professors. Seven of our 20 full-time faculty members have joint appointments with Fermilab or Argonne national laboratories.

Since NIU is located near Fermilab and Argonne, most faculty, and a large number of undergraduate and graduate students, are involved in research at these two national laboratories. Our faculty also have research programs affiliated with CERN in Geneva, Switzerland.

We have active research programs in many areas — including condensed matter physics, particle-beam physics and particle-accelerators technology and high-energy physics — nearly all of which involve our students. The department is home to two research clusters, the Institute for Nano Science, Engineering and Technology (INSET) and the Northern Illinois Center for Accelerator and Detector Development (NICADD), which provide research and development opportunities nationally and internationally as well as graduate fellowships.

niu.edu/physics