



The Joint Institute for Nuclear Astrophysics

*Michigan State University
East Lansing, MI 48824*

www.JINAweb.org

Zach Constan
NSCL Outreach Coordinator
constan@nscl.msu.edu
Phone (517) 333-6363
Fax (517) 353-5967

**State Continuing Education Clock Hours (SCECHs, formerly CEUs)
for PAN 2014 at Michigan State University
July 28 – August 1, 2013**

PAN (Physics of Atomic Nuclei) is a summer science program for junior/high school science teachers and high school students. The program introduces teachers to the fundamentals of the extremely small domain of atomic nuclei and its connection to the extremely large domain of astrophysics and cosmology.

Lectures and technical talks (**at least 15 contact hours**) and hands-on experiments are led by senior faculty and staff of the National Superconducting Cyclotron Laboratory (NSCL). Participants will model the process of scientific investigation through inquiries, fieldwork (the construction and use of cosmic ray detectors), and lab work (**at least 15 contact hours**).

Michigan State University offers **30 State Continuing Education Clock Hours (SCECHs)** for PAN participants, free of charge. These units are approved in-service workshop, professional credits which are used for state administrator / teacher professional certificate renewal. **These hours are valid in Michigan and any other state that accepts Michigan State Board continuing education.**

Participants wishing to receive SCECHs will be required to **supply the last four digits of their social security numbers** in order for the PAN coordinator to process their credits. Participants must also sign in and out each day of the program to prove they were present. Credits will be applied for within 30 days of the end of PAN; participants can expect to receive their certificate and the SCECH number within six weeks of the end of PAN.

PAN Participants may enroll for one credit of SME 889, summer semester 2014. Last year's lifelong education rate was \$569 for Michigan residents, \$729 for out-of state (degree students must pay normal graduate fees; check with your advisor to be certain credit can be accepted into your planned program); participants will be billed for this cost and must submit payment according to University rules and regulations. Participants must declare intent to enroll.

To enroll, participants must initially contact Dr. Merle Heidemann, Graduate Program Director in the Center for Integrative Studies in General Science (CISGS) at least 14 days prior to the PAN Workshop. Call 432-2152, ext 107 or email heidema2@msu.edu.

Following declaration to enroll, participants must complete the MSU Lifelong Education Application (no cost) and send an email to Margaret Iding, CISGS Graduate Secretary, to enroll in the course (email below).

After the program, the participant must submit an extended written project which is agreed upon with CISGS at enrollment. The project will be due shortly after the program, and must be submitted to Dr. Heidemann in print form. Direct any questions to Margaret Iding, 517-355-1708 ext 105, idingm@cns.msu.edu.

Sincerely,
Zach Constan

Joint Institute for Nuclear Astrophysics
University of Notre Dame
Michigan State University
University of Chicago

Associated Institutions
University of Arizona
University of California
Argonne National Laboratory
Los Alamos National Laboratory