Sensing Our World 2005
July 18-22 and July 25-29, 2005

A week-long all-day summer camp about physical science, materials, physics and sensors for students entering 7th or 8th grade

Camp Activities

Through hands-on activities students learn about the scientific principles behind the many sensors used in everyday life. They learn how devices work, such as sound and motion detectors. Students make electric circuits, build their own detectors and learn about polymers, cryogenics, and electrical generators. They'll also explore emerging topics in nuclear astrophysics and nanoscience.

Classes are held on the MSU campus Monday through Friday, from 9:00 a.m. to 4:00 p.m. Activities include meeting with MSU scientists to learn about their research and visits to research labs on campus.

We expect a large response to the summer camp. Two sessions are offered: July 18-22 & July 25-29. Applications are reviewed by the Sensing our World 2005 selection committee. Twenty students are accepted for each week. Selection notices will be mailed to students May 31, 2005. Financial aid is available.

Sensing Our World Instructors

Camp instructors include faculty, staff, and graduate students from Physics, Chemistry and Engineering departments at MSU plus local certified K-12 teachers.

Mr. Russell Pline is the lead instructor of the camp. Mr. Pline teaches in the Okemos school system and holds degrees from Michigan State University and the University of Michigan. An outstanding science teacher, he was the recipient of a Governors Fellowship for AT&T distance learning curriculum in 1993, the Okemos Education Foundation Award for Excellence in 1997, and the Presidential Award for Excellence in Science Education in 1998. He brings to the program a wealth of classroom and presentation experience.

Camp Sponsors

Sensing Our World ’05 is sponsored by the Center for Sensor Materials, the Joint Institute for Astrophysics (JINA), the Nanoscale Interdisciplinary Research Team (NIRT)–Structure of Nanocrystals, and the National Superconducting Cyclotron Laboratory (NSCL).

2005 has been designated the World Year of Physics (WYP 2005) as a worldwide celebration of physics and its importance in our everyday lives. Physics not only plays an important role in the development of science and technology but also has a tremendous impact on society. Sensing Our World ’05 especially aims to raise awareness of the role of physics and the relevance of physical science education both in and beyond the classroom.

APPLICATION DEADLINE
MONDAY, MAY 16, 2005
Teacher Recommendation

STUDENT NAME ____________________________________________

This student is applying to participate in a week-long science camp at Michigan State University for 7th and 8th grade students. Please review this student’s records and give us your candid opinion about the suitability of the student for the camp. This information will be treated in confidence.

Participants make electric circuits, build their own detectors and learn about the physical and chemical properties of materials – all projects require a certain amount of maturity.

Please return this form separately by mail to the address below or you may FAX it to us. We appreciate your cooperation.

DO NOT RETURN THE TEACHER RECOMMENDATION TO THE STUDENT

Mailing Address: Sensing Our World 2005
Attn: Ann Kirchmeier
Center for Sensor Materials
2170 Biomedical Physical Sciences
Michigan State University
East Lansing, MI 48824-2320

To FAX Teacher Recommendation: (517) 432-5501
Attn. Sensing Our World

Below is a list of attributes. Please include those attributes that apply to this student in your comments.

- has a wide vocabulary  - expresses ideas easily  - is comfortable with other students
- is comfortable with adults  - arrives at correct conclusions  - arrives at conclusions quickly
- organizes work well  - is an independent thinker and worker  - demonstrates imagination and original thought

Comments __________________________________________________________________________
_________________________________________________________________________________
_________________________________________________________________________________
_________________________________________________________________________________
_________________________________________________________________________________
_________________________________________________________________________________
_________________________________________________________________________________

Teacher Signature _______________________________________  Title _________________________________

Name Printed or Typed __________________________________  E-mail _______________________________

FREE - hands-on physical science training for teachers and pre-service teachers in Sensing Our World. Qualifies for new teacher professional development (MI Section1526).

Are you interested in learning more? _____YES!  _____No thank you, not at this time

Best way to contact you is:

DEADLINE MAY 16, 2005
SUMMER SCIENCE CAMP
APPLICATION FORM

Please print or type clearly. Applications will not be considered unless completed on both sides.

Student Name _____________________________________________________________________________

Last   First   (Nickname-prefer to be called)

Address _____________________________________________  E-mail_______________________________

City _____________________________  Zip _______________  Home Phone (________) ________________

Date of Birth ____/____/____  Age ______    Sex ______

The week you prefer to attend  ________   or ________      or __________

July 18-22      July 25-29            either week (no preference)

Parent/Guardian ____________________________________    Work Phone (_________) _________________

____________________________________    Work Phone (_________) _________________

Current School Name ________________________________________ Grade Entering in Fall 2005 ________

School District ______________________________________________

City ___________________________

Return application to: Sensing Our World 2005
Center for Sensor Materials
2170 Biomedical Physical Sciences
Michigan State University
East Lansing, MI  48824-2320

Camp Fee / Parent Request for Financial Aid

The camp fee is $150.00. Financial assistance is available for those who qualify. To request financial aid, please write a letter supporting the student’s need for assistance and include it with the application.

DO NOT SEND PAYMENT WITH THE APPLICATION FORM.

Questions? Please call the Center for Sensor Materials at (517) 432-5500.

DEADLINE MAY 16, 2005
TELL US ABOUT YOURSELF
(To be completed by student)

NAME _____________________________________________________________________________________

1. I want to attend Sensing Our World because _________________________________________________________
________________________________________________________________________________________________
________________________________________________________________________________________________
________________________________________________________________________________________________

2. Science topics that especially interest me include:______________________________________________________
________________________________________________________________________________________________

3. Science-oriented activities (e.g., science fairs, science camps, etc.) in which I have participated:_________________
________________________________________________________________________________________________

4. My favorite subjects in school are:__________________________________________________________________
________________________________________________________________________________________________

5. Extra curricular interests and activities in which I currently participate:______________________________________
________________________________________________________________________________________________________

6. Careers I’m considering include:____________________________________________________________________
________________________________________________________________________________________________

7. New things I’d like to try:_________________________________________________________________________
________________________________________________________________________________________________

8. My strengths are:_______________________________________________________________________________
________________________________________________________________________________________________

9. My weaknesses are:_____________________________________________________________________________
________________________________________________________________________________________________

10. I find science interesting because__________________________________________________________________
________________________________________________________________________________________________

Parent/Legal Guardian Permission
I give permission for my son/daughter to participate in Sensing Our World 2005 if he/she is selected. This includes permission to participate in all Sensing Our World program field trips. At least one parent/guardian is expected to attend the Friday afternoon Awards/Demonstrations presentation.

Signature of Parent/Guardian _________________________ Date ____________

Signature of Student __________________________________________ Date ____________