



# *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 7<sup>th</sup> or 8<sup>th</sup> 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***



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## Teacher Recommendation

STUDENT NAME \_\_\_\_\_

This student is applying to participate in a week-long science camp at Michigan State University for 7<sup>th</sup> and 8<sup>th</sup> 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 \_\_\_\_\_

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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 Section 1526).

Are you interested in learning more?  YES!  No thank you, not at this time

Best way to contact you is:

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***DEADLINE MAY 16, 2005***



# SUMMER SCIENCE CAMP APPLICATION FORM

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## 2005

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

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### 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.

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## **DEADLINE MAY 16, 2005**

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## 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 \_\_\_\_\_

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## 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 \_\_\_\_\_