

## Internships in Public Science Education Spring 2004

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### General Expectations

- Attend all weekly team meetings.
- Lead your team activity on at least six different days. Some examples include visiting a middle school for a day or doing a teacher training workshop.
  - Please obtain teacher contact information from Wendy.
    - Contact teacher, introduce yourself, and your activity and the relevant science principles and science standards; request possible visit dates. Sometimes teacher may request you to lead activities from previous years. In that case plan to visit the same classroom a second time to present your activity.
    - Once the date is set, plan logistics, how many classes/times you will present, gather materials/supplies. Email [ipse@chem.wisc.edu](mailto:ipse@chem.wisc.edu) and [jagimm@wisc.edu](mailto:jagimm@wisc.edu) your visit dates.
    - In-class videotaping when you present your team activity for the first time
    - Teacher feedback form—take physical copy to the presentation and email another copy after the presentation
    - Online Presentation Survey; give an update during weekly team meetings
- General outreach activities:
  - On the Road
  - Wisconsin Society of Science Teachers (Mandatory)
  - Secret Saturday Labs at DW (February 21 on Nanotechnology Mandatory)
  - Science Saturday
  - Science Exposition
  - RAP session at DW
- Take a leadership role in one additional activity listed below.
  - Please set up an initial meeting with Aura to discuss details and responsibilities.
  - Draft a plan of action regarding your task and set up a time to meet with IPSE staff and discuss it.
- Write an article (2,000 words) for a general audience about your team topic.  
**Due May 3, 2003**



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## Leadership Role 1

### □ **Secret Saturday Labs—“Let’s Get Really Small”**

This particular Secret Saturday focus on nanotechnology. We will distill our in-classroom activities to tabletop demonstrations. All interns will participate. The leadership positions entails working with other teams to create tabletop demos.

- Date: **Saturday, February 21, all day**
- Location: DW, Milwaukee
- Responsibilities include:
  - Planning the layout and composition of new tabletop demos.
  - Deciding which and how classroom activities will be presented; how long each should be and how they could be better tailored for museum audience.
  - Determining what materials are needed and how we will transport them to DW.
  - Arranging carpooling.  
<http://www.secretlabs.info/radiomenu.htm>
- Possible contacts include:
  - All interns
  - Aura and Wendy
  - Tom Derenne
- Suggested time-line:
  - 1/19: Aura will layout the event
  - Next group meeting: work on creating/brainstorming tabletop demos.
  - 2/9: Try out demos
  - 2/16: Gather materials

## Leadership Role 2

### □ Science Saturday--Nanotechnology

SS will offer middle school students and their parents an exciting opportunity to explore the nanoworld. This is last of a three part series "Exploring the Physical World". Interns will lead a number of in-classroom team activities, lab demonstrations, and MRSEC tabletop demonstrations.

- Date: **Saturday February 28, 9 AM- Noon**
- Location: UW-Madison, Chemistry
- Responsibilities include:
  - Planning and organizing the day's events. Which activities/how long/which order to present.
  - Modify/reorganize the booklet
  - Recruit other interns
  - Gathering/transport materials
  - Setting up lab demos/materials
- Possible contacts include:
  - Aura and Wendy
  - Rod Schreiner (organizer of Science Saturday series)  
<http://scifun.chem.wisc.edu/scisat/PhysicalWorld/PhysWorld.htm>
- Suggested time-line:
  - 1/26: talk to Aura, gather information about the last semester's event
  - 2/2: schedule/order activities, recruit interns for each activities
  - 2/16: finish the booklet
  - 2/23: gather materials, logistics, check out locations/labs, etc.

## Leadership Role 3

### □ **Wisconsin Society for Science Teachers (WSST) Conference**

The WSST conference is a professional development opportunity for K-12 science teachers, Thursday through Saturday, March 9-11, in Appleton. The goals of our session are to provide professional development for teachers by enhancing their understanding of nanotechnology and offering them new activities for their classrooms. Interns have the opportunity to forge relationships with science teachers.

- Date: **Friday March 12, 2:30-4:20 PM**, Linden Room
- Location: Appleton
- Responsibilities include:
  - Planning the workshop based on the abstract already submitted to WSST conference organizers.
  - Deciding which activities and talks will be presented; how long each should be and how they could be better tailored for teachers.
  - Determining what materials are needed and how we will transport them to Appleton.
  - Arranging carpooling.  
<http://www.wsst.org/convention/>
- Possible contacts include:
  - All interns
  - Aura
- Suggested time-line:
  - 2/9: obtain all details from Aura, have an outline of the session
  - 2/23: recruit interns, work on presentations
  - 3/4: have presentation ready
  - 3/10: gather materials

## Leadership Role 4

### □ **Science Expedition '04**

Science Expedition is an annual public outreach event on campus that focuses on different aspects of science and technology throughout the whole month of April. IPSE will participate at the opening kickoff date. We will do MRSEC demos and possibly other activities targeting a wide audience.

- Date: **Saturday, April 3, all day**
- Location: UW-Madison, Engineering Hall
- Responsibilities include:
  - Planning and organizing the day. Which interns will participate?
  - Scheduling/coordinating with other ongoing events
  - Materials/Logistics
- Possible contacts include:
  - Aura
  - Tom Zinnen (organizer, Science Alliance)
  - <http://www.biotech.wisc.edu/outreach/xenium/index2004.html>
- Suggested time-line:
  - ASAP: gather information about the event, what/where we will present
  - 3/1: recruit interns to participate
  - 3/29: gather materials

## Leadership Role 5

### □ **American Society of Technology Centers (ASTC) Roundtables for the Advancement of the Professions (RAP)**

ASTC RAPs provide a forum for museum professionals to network, to expand their knowledge base, and to identify resources. DW RAP is titled "Museum/ University collaborations: Getting together to write a winning NSF proposal". IPSE will present their team activities and tabletop demonstrations and interact with museum professionals from various science centers across the country.

- Date: **Friday, April 23 evening – Saturday April 24**
- Location: DW
- Responsibilities include:
  - Coordinate with Tom Derenne—plan and schedule appropriate activities for this weekend event.
  - Recruiting interns
  - Logistics/carpooling
- <http://www.astc.org/profdev/raps2004.htm>
- Contacts include:
  - Tom Derenne
  - Aura

## February 2004

Viewing the calendar of ipse\_uwmadison.

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>
<b>8</b>	<b>9</b>	<b>10</b>	<b>11</b>	<b>12</b>	<b>13</b>	<b>14</b>
<b>15</b>	<b>16</b> On the Road at Milwaukee Public Museum	<b>17</b>	<b>18</b>	<b>19</b>	<b>20</b>	<b>21</b> 12p Secret Saturday Labs on Nanotechnology
<b>22</b>	<b>23</b>	<b>24</b>	<b>25</b>	<b>26</b> 10:30a JSEHS--High School Teacher Workshop	<b>27</b>	<b>28</b> 9a Science Saturday
<b>29</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>

## March 2004

Viewing the calendar of ipse\_uwmadison.

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
<b>29</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>
<b>7</b>	<b>8</b>	<b>9</b>	<b>10</b>	<b>11</b> Wisconsin Society of Science Teachers Conference	<b>12</b> Wisconsin Society of Science Teachers Conference	<b>13</b> Wisconsin Society of Science Teachers Conference  12p Secret Saturday Labs
<b>14</b>	<b>15</b>	<b>16</b>	<b>17</b>	<b>18</b>	<b>19</b>	<b>20</b>
<b>21</b>	<b>22</b>	<b>23</b>	<b>24</b>	<b>25</b>	<b>26</b>	<b>27</b>
<b>28</b>	<b>29</b>	<b>30</b>	<b>31</b>	<b>1</b>	<b>2</b>	<b>3</b> Science Exposition

## April 2004

Viewing the calendar of ipse\_uwmadison.

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
28	29	30	31	1	2	3 Science Exposition
4	5	6	7	8	9	10 12p Secret Saturday Labs
11	12	13	14	15	16	17
18	19	20	21	22 On the Road at Peggy Notebaert Nature Mu seum	23 RAP session at DW	24 RAP session at DW
25	26	27	28	29	30	1

## May 2004

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
25	26	27	28	29	30	1
2	3 Paper Due	4	5	6	7	8 12p Secret Saturday Labs
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31	1	2	3	4	5