



PROGRAM SUMMARY

NWABR is pleased to offer a new biomedical research-focused Ethics in the Science Classroom summer program for secondary science teachers! This program totals 12.5 days, and includes a week-long intensive residential summer background course focused on the research process and related ethical aspects, a second week of direct experiences in research labs of NWABR member organizations, and two and one-half days of follow up during the school year, observing Institutional Animal Care and Use Committee (IACUC) or Institutional Review Board (IRB) meetings, participating in NWABR's IACUC or IRB workshops, and engaging in program follow-up sessions.

Applications will become available in late February online at www.nwabr.org.



About the Northwest Association for Biomedical Research (NWABR)

NWABR is a non-profit 501(c)(3) organization founded in 1988 to ensure the vitality of life sciences in the Northwest by advancing the community's understanding of biomedical research, the process by which research advances, and the applications and implications of that research.

FOR QUESTIONS, PLEASE CONTACT US:
(206) 957-3337
www.nwabr.org/education/esc.htm

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Collaborations to Understand
 Research and Ethics

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SEPA SCIENCE EDUCATION PARTNERSHIP AWARD
Supported by the National Center for Research Resources, a part of the National Institutes of Health



WEEK ONE

Intensive Teacher Background

July 11-16, 2010

The first week of the workshop will be offered in an intensive, residential retreat setting at the UW Pack Forest Conference Center. We will build upon our successful existing Ethics in Science program, but with a specific focus on research-related issues. This week provides background in:

- » Ethical theories/perspectives and decision-making frameworks
- » Pedagogical strategies for integrating discussion of ethics into science classrooms
- » The biomedical research process, including the use of animal models and clinical trials
- » The application of ethical principles to specific aspects of research
- » Resources for teaching science and ethics, including NWABR's curriculum materials and a new Bioethics curriculum supplement from the NIH Office of Science Education.

At the culmination of the first week, teachers will submit 'Action Plans' that address how they will integrate materials from the workshop into their classrooms. These may consist of specific lessons, collections of case studies, or plans for bioethics courses. Lead teachers will assist participants in creating a usable product that can be taken back into the classroom. Room and board for this week are paid by NWABR.



"The NWABR workshop was a wonderful opportunity to connect with like-minded educators who want to make the science in their classrooms meaningful and significant to their students. What a great experience!" — ETHICS WORKSHOP PARTICIPANT

WEEK TWO

Research Institutions in the Seattle Area

July 19-23, 2010

During the second week, teachers will visit NWABR member institutions in order to have direct experiences with researchers and their work. Teachers will discuss the process and the ethical dimensions of biomedical research with the scientists they encounter, and will also share their challenges addressing research topics with students. Teachers will interview scientists about certain aspects of research in the laboratories that they visit, and consolidate their findings into a written reflective summary. The purpose of these experiences is for teachers to develop a broad understanding of the research process - from grant writing and planning, to conducting the actual project, through to the analysis and reporting of results. Teachers will need to provide their own lodging, transportation and meals for this week.

SCHOOL YEAR FOLLOW-UP AND REUNIONS

Institutional Animal Care and Use Committee (IACUC) and Institutional Review Board (IRB)

A series of experiences with the IACUC/IRB community and follow-up meetings during the school year constitute the final aspect of our professional development program. Teachers will choose one of the following during the school year: they can attend an IACUC or IRB workshop, attend an IACUC or IRB meeting, or meet with staff at IACUC/IRB offices. Funds for substitutes will be provided by NWABR. There are two mandatory follow-up sessions, one in January and a second in May.



"In over 25 years of teaching, my experience with NWABR as lead teacher and participant has made the single most dramatic impact on the way I teach. I am truly grateful!" – ETHICS WORKSHOP PARTICIPANT

CREDITS/CLOCK HOURS

In collaboration with UW Educational Outreach and the Washington State Science Teachers Association, teachers will be able to purchase either graduate-level credit (estimated 10 credits) or clock hours (100 clock hours) for the course.

STIPEND

Teachers will receive an \$800 stipend for their participation, \$100 of which will be withheld until the follow-up sessions are completed.

PROGRAM	2010-2011 DATES <i>tentative</i>
Orientation	May 6, 2010
Summer Workshop Week 1	July 11-16, 2010
Summer Workshop Week 2	July 19-23, 2010
IRB/IACUC School Year Follow-up	½ Day, Varies
Mid-winter Reunion Dinner	January 13, 2011
Spring Reunion	May 14, 2011



APPLICATION SCHEDULE	DATES
Applications Open online at nwabr.org	February 26, 2010
Applications Close	March 26, 2010
Notice of Acceptance Mailed	April 2, 2010
Commitment Letters and Deposit Due	April 23, 2010
Last Date to withdraw without penalty	June 25, 2010

APPLICATIONS ONLINE AT WWW.NWABR.ORG.

NWABR.ORG
Northwest Association for Biomedical Research