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To: "NJinPAS Network" <NJinPASN@AESOP.RUTGERS.EDU>
Sent: Friday, October 08, 2004 12:21 PM
Subject: PAIPM Annual Grant Opportunity Summary for 2005

Posted to PAIPM listserv 10/7/04 by Edwin G. Rajotte, Penn State University Professor of Entomology and IPM Coordinator

Fiscal Year 2005 Grant Opportunities

IPM Colleagues,

This is our sixth annual summary of funding opportunities for IPM projects. The list is tailored for Pennsylvania, but many of the regional and national funds are available to a larger audience. Some of these funds are specifically for IPM (RAMP, CAR, PMAP) others are more general, but have supported IPM projects in the past (SARE, PESP, Organic Programs). In addition, not all of this money is directed solely for research. There are also opportunities for extension and public education.

While our formula funds in IPM have remained static for several years, competitive funding levels have been greatly expanded.

Thanks to my assistant, Kristine Kuhn, for compiling this information again this year. Some of the agencies are a little late in getting RFAs out this year, so deadlines and other details may be tentative. However, all of this grant information is also on our web site at <http://paipm.cas.psu.edu/funding.html> We will update the web site as we get more information, so check back every once in a while. If there are other funding sources that we have not listed, let us know and we will add them next year.

Good luck!

Ed

IPM Funding Opportunities

There are federal, regional, and state funding mechanisms. Among these, grant funds can be obtained for research (both basic and applied) and extension. **There are several tens of millions of dollars available for IPM research and extension from various agencies.** The following is a list of some competitive grants available for IPM program research and development. This is not an exhaustive list. Many of the application deadlines occur from November thru January for spring projects. Proposal guidelines and application forms are available from Judy McCormick, 229 Ag. Admin., (814) 865-5419 or as indicated on the various websites listed.

General Comments on trends in RFPs

RFPs have become much more specific in recent years reflecting the desire on the part of the funding agencies to address important, near and mid-term problems. Pay particular attention to the following developments and themes:

- Regional Pest Management Centers- October 2001 saw the initial establishment of Regional Integrated Pest Management Centers. These centers will be focal points in each USDA region for issues related to pest management and pesticides. Presently, the centers focus on assessing regional stakeholder needs and providing regional pest management practice information to inform federal policy. These centers are instrumental in linking stakeholder needs with research and extension priorities. This information will be used to develop RFPs that address regional needs. Presently, Regional IPM grants are administered by the Centers. For the first time the Pest Management Alternatives Program (PMAP) will be Center-based.
- Stakeholder needs - The justification section of the grants should include a discussion, based on survey or some other data, of stakeholder needs. Stakeholders include the clientele of a program including farmers, agribusiness, and others. Stakeholders also include other groups who may be interested in the outcome of a research or extension program such as consumers, environmentalists, and social welfare advocates. These needs should be derived by organized inquiry. The Pennsylvania IPM Program has compiled stakeholder needs for several commodities. This compilation can be obtained from Kristie Auman, 865-2839, kma147@psu.edu. In

addition, the Northeast Regional Integrated Pest Management Center has a compilation of needs and priorities for the region here <http://www.nepmc.org/>. At this web site select the commodity group your are interested in. Stakeholder priorities will be listed.

- Integrated Collaboration - Many proposals call for collaboration on many fronts. These include interdisciplinary cooperation and integration of research and implementation through extension or the private sector. Interstate collaboration is also encouraged. In many cases award levels have been increased to accommodate this collaboration.
- Reaction to regulation - much of the funding is tied to legislation such as the Food Quality Protection Act and the establishment of National Organic Standards. The RFPs are keyed to finding IPM alternatives that meet the goals of the legislation.
- Natural Resource Conservation Service- The new farm bill lists integrated pest management goals for programs administered by NRCS. Over time these programs will provide cash incentives for farmers to adopt IPM and other 'green' practices. The availability of these programs can be used in proposal rationale when describing technology implementation. The advent of the Conservation Security Program provides IPM incentives for selected watersheds.
- Urban and Community IPM- There is an increasing focus on pest management issues associated with urban and suburban environments. The federal 'IPM Roadmap' includes Community IPM as a main thrust. Community IPM programs are especially important for the Northeast region. Currently, IPM in school environments is a very active area. In coming years we can look forward to more funding in this area.
- Bioterrorism and Invasive Species- The establishment of regional diagnostic centers for plant and animal pests, moving the port inspection section of APHIS to the Department of Homeland Security and the creation of a federal program for invasive species management has focused attention on these areas and some RFAs are appearing for research and education. Given the state of the world we can expect this area to grow in coming years.
- Organic Agriculture- This area keeps gaining momentum. A few years ago research in this area had federal funding of only \$250,000. Last year it was almost \$5 million. Management of pests in organic systems is IPM. The approach is the same, but organic growers are constrained from using certain tools such as many pesticides, transgenic crops and others.

Federal Grants USDA -CSREES

Full listing of CSREES Funding at: <http://www.csrees.usda.gov/fo/funding.cfm>

Pest Management Alternatives Program (PMAP)

Web site: <http://www.csrees.usda.gov/fo/fundview.cfm?fonum=1114>

Contact: Monte P. Johnson, phone (202) 401-1108; fax (202) 401-4888; email: mpjohnson@reeusda.gov

Proposals due: Look for RFA mid-December with February due date

Total available: Approximately \$1.4 million should be available for 2005

This year, there will be RFAs for each region, released by the Regional IPM Centers and tailored to each region's needs. However, proposals will still compete nationally for funding. (The available funds will not be divided up for each region).

This competitive grants program funds projects up to three years. PMAP was established to support the development and implementation of IPM systems when regulatory action by the U.S. Environmental Protection Agency (EPA), or voluntary cancellation by the registrant, result in the unavailability of certain pesticide uses. The program's objectives are to: (a) Adapt technological approaches to IPM for both pre- and post-harvest use (e.g., reduced rates, timing, application methods and equipment that could reduce reliance on pesticides or residues); (b) Adapt and demonstrate IPM tactics based on alternative technologies, including products of genetic engineering, biological organisms, biological pesticides, new chemical pesticides, and cultural practices; and (c) Describe and field demonstrate how tactics can be economically and practically integrated into production systems for individual crops. Funded projects must focus on either outreach or technology (with an outreach component).

Integrated Research, Education, and Extension Competitive Grants Program: Integrated Pest Management

- There are **three** program components: Crops at Risk from FQPA Implementation (CAR); FQPA Risk Avoidance and Mitigation for Major Food Crop Systems (RAMP); Methyl Bromide Transitions (MBT); and Pest Management Centers. There is **one** RFP announced for these programs.

There should not be any big changes for FY 2005 RFAs. Total amounts available for each grant should remain around last year's amounts, but will be dependent on the new federal budget, which most likely won't be passed until after the election. The RFA should be available around December/January with proposals due in the

spring.

1. Crops At Risk from FQPA Implementation (CAR)

Web site: <http://www.csrees.usda.gov/fo/fundview.cfm?fonum=1081>
Contact: Dr. Rick Meyer; phone (202) 401-4891; hmeyer@reeusda.gov
Total available: \$1.3 million in 2004

Due: The RFA should be available around December/January with proposals due in the spring.

The CAR program is an intermediate-term research, education, and extension competitive grants program and will fund projects directed toward multiple tactic IPM systems. Maximum award is \$200,000 per year for two to four years.

2. FQPA Risk Avoidance and Mitigation Program for Cropping Systems (RAMP)

Web site: <http://www.csrees.usda.gov/fo/fundview.cfm?fonum=1125>
Contact: Dr. Robert Nowierski; phone (202) 401-4900; Rnowierski@reeusda.gov
Total available: \$4.7 million in 2004

Due: The RFA should be available around December/January with proposals due in the spring. The FQPA RAMP is a long-term (up to five years) research, education, and extension competitive grants program to develop reduced risk pest management strategies for agro-ecosystems with a maximum budget of \$625,000 per year. Priority consideration will be given to projects that will enhance stability and sustainability of agricultural production systems by developing and implementing IPM systems that maintain and enhance productivity and profitability while addressing environmental quality and human health concerns.

3. Methyl Bromide Transitions (MBT)

Web site: <http://www.csrees.usda.gov/fo/fundview.cfm?fonum=1107>
Contact: Dr. Dennis Kopp; phone (202)-401-6437; dkopp@csrees.usda.gov
Total available: \$2.4 million in 2004

Due: The RFA should be available around December/January with proposals due in the spring. The MBT program supports short- to intermediate-term projects focusing on the discovery and implementation of practical IPM alternatives for commodities affected by the phase-out of methyl bromide. MBT projects should emphasize the development and implementation of IPM approaches. This can include increased research, education, and extension activities on all commodities at risk, and involve field trials and/or other demonstration projects that enhance the adoption of pest management alternatives for affected commodities.

Integrated Research, Education, and Extension Competitive Grants Program: Integrated Organic Program -

There are **two** program components under **one** RFA. To fund programs for up to four years. Purpose of the Integrated Organic Program is to solve critical agriculture issues, priorities, or problems through the integration of research, education, and extension activities in two program areas: (1)Organic Transitions Program (ORG); and (2)Organic Agriculture Research and Extension Initiative (OREI). These two funding opportunities are included in the same Request for Applications.

Funding and RFA schedules should be the same as last year, pending the passing of the federal budget.

1. Organic Transitions Program (ORG)

Web site: <http://www.csrees.usda.gov/fo/fundview.cfm?fonum=1142>
Contact: Dr. Thomas Bewick, phone (202) 401-3356, email: tbewick@reeusda.gov
Total available: \$1.8 was available in FY2004

Due: Look for RFA around April; past due date was in June

ORG funds the development and implementation of research, extension, and higher education programs to improve the competitiveness of organic producers.

2. Organic Agriculture Research and Extension Initiative (OREI)

Web site: <http://www.csrees.usda.gov/fo/fundview.cfm?fonum=1140>
Contact: Dr. Thomas Bewick, phone (202) 401-3356, email: tbewick@reeusda.gov
Total available: \$2.9 million was available in FY2004

Due: Look for RFA around April; past due date was in June

OREI funds research and extension programs that enhance the ability of producers and processors who have already adopted organic standards to grow and market high quality organic food, feed, and fiber.

Interregional Research Project No. 4 (IR-4) - Biopesticides

Web site: <http://ir4.rutgers.edu/Docs/2005callforproposals.htm>
Contact: Michael Braverman, Rutgers Univ.; braverman@aesop.rutgers.edu ; phone 732-932-9575 ext. 610
Proposals due: November 15, 2004
Total available: \$400,000

With newer targeted conventional chemicals there is interest in resistance management to maintain the utility of those products. Therefore, IR-4 is especially interested in proposals containing biopesticides as resistance management tools, rotated with conventional products. While resistance management is an important interest, the proposal must still have a majority focus on biopesticides. Selection of treatments and experimental design should be considered to elucidate the contribution of each component to the pest control system. New for 2005, project proposals will be accepted in three different stage categories. The three project stages are Early, Advanced and Demonstration. The amount of funding available is \$400,000. Most successful grants have generally ranged from \$5,000 to \$10,000 with the largest grants around \$20,000.

National Research Initiative (NRI)

NRI Web site: <http://www.csrees.usda.gov/fo/fundview.cfm?fonum=1112>
RFA Web site: http://www.csrees.usda.gov/funding/rfas/pdfs/05_nri.pdf
Total Available: \$150 million available for FY 2005
Proposals due: Topic dependent
Average grant: Standard awards are not likely to exceed a total budget of \$300,000 for 3-4 years of support.

Applications accepted for fundamental research, mission-linked research, and integrated research, extension, and education projects. Deadlines depend on area of grant. Main areas of this grant that address pest management include:

Integrative Biology of Arthropods & Nematodes - Due November 2, 2004

Contact: Mary Purcell-Miramontes, phone (202) 401-5168, email: mpurcell@csrees.usda.gov
<http://www.csrees.usda.gov/fo/fundview.cfm?fonum=1103>

Arthropod & Nematode Gateways to Genomics - Due February 1, 2005

Contact: Mary Purcell-Miramontes, phone (202) 401-5168, email: mpurcell@csrees.usda.gov
<http://www.csrees.usda.gov/fo/fundview.cfm?fonum=1072>

Biology of Plant-Microbe Associations - Due December 1, 2004

Contact: Dr. Ann Lichens-Park, phone (202) 401-6460, email: apark@csrees.usda.gov
<http://www.csrees.usda.gov/fo/fundview.cfm?fonum=1120>

Biology of Weedy & Invasive Plants - Due January 7, 2005

Contact: Diana Jerkins, phone (202) 401-6996, email: djerkins@csrees.usda.gov
<http://www.csrees.usda.gov/fo/fundview.cfm?fonum=1123>

Animal & Plant Biosecurity - Letter of intent due May 2, 2005; Proposal due June 15, 2005

Contact: Ed Kaleikau, phone (202) 401-1931, email: ekaleikau@csrees.usda.gov
<http://www.csrees.usda.gov/fo/fundview.cfm?fonum=1074>

Managed Ecosystems - Due January 10, 2005

Contact: Diana Jerkins, phone (202) 401-6996, email: djerkins@csrees.usda.gov
<http://www.csrees.usda.gov/fo/fundview.cfm?fonum=1104>

Other sections of NRI can also support IPM technologies.

Higher Education Program Challenge Grants

Web site: <http://www.csrees.usda.gov/fo/fundview.cfm?fonum=1082>
Contact: Mr. P. Gregory Smith, phone (202)720-2067, email: gsmith@csrees.usda.gov
Proposals Due: Look for RFA around December; past due date was February 2004
Total Available: \$4.8 million was available for 2004

The HEC program seeks to stimulate and enable colleges and universities to provide the quality of education necessary to produce baccalaureate or higher degree level graduates capable of strengthening the Nation's food and agricultural scientific and professional work force. Projects focused on teaching improvements at the Masters degree level will also be accepted in addition to undergraduate teaching improvement proposals.

Biotechnology Risk Assessment Research Grants Program (BRAG)

Web site: <http://www.csrees.usda.gov/fo/fundview.cfm?fonum=1075>
Contact: Dr. Debora Hamernik; phone 202-401-4202; email: dhamernik@csrees.usda.gov
Proposals Due: Look for RFA around December; past proposals were due in February
Total available: Approx. \$3 million was available in 2004

The purpose of this program is to assist Federal regulatory agencies in making science-based decisions about

the effects of introducing genetically modified organisms into the environment. Investigations of effects on both managed and natural environments are relevant. Applications to the USDA BRAG Program must seek partial funding for a conference or address one of the following areas: 1) Identify and develop practices to minimize risks associated with genetically engineered organisms; 2) Research methods to monitor the dispersal of genetically engineered organisms; 3) Research to increase knowledge about the characteristics, rates, and methods of gene transfer that may occur between genetically engineered organisms, and related organisms; 4) Perform assessments to provide analysis which compares impacts of organisms modified through genetic engineering to other types of production systems; 5) Other areas of research designed to further the purposes of the USDA BRAG program. See RFA for details.

Environmental Protection Agency

Full listing of EPA Grants at: <http://www.epa.gov/epahome/grants.htm>

Pesticide Environmental Stewardship Program (PESP)

Web site: <http://www.pesp.org/>

Contact: Mike Wallace, phone 512-391-4998, email: mwallipm@ev1.net

Due: Look for RFA around February with a due date of March/April and start date around July

Total available: \$270,000 was available for 2004 (individual grant maximum is \$40,000 - reimbursed)

To help address specific pesticide risk reduction concerns. The Agency will consider funding a broad range of projects that reduce pesticide risk to human health and the environment. PESP Project Grants are administered by the National Foundation for IPM Education (NFIPME). Projects should focus on one of the following: a) Outreach, communications, technology transfer, and information networks to promote use of reduced risk pest control methods, etc. b) Promoting use of bio-pesticides and reduced risk pesticides c) IPM in schools, or d) Development of measurements to enhance the ability of IPM practitioners to measure the effectiveness of reduced risk pest management techniques.

Great Lakes National Program Office

Web site: <http://www.epa.gov/glpo/fund/glf.html>

Contact: Michael Russ 312-886-4013, email: russ.michael@epa.gov (Contacts vary based on priority area)

Proposals due: Look for RFP in December 2004 with proposals to be due around March 2005

For FY 2004, funding totaled \$4 million in the priority areas of: Invasive Species, Contaminated Sediments, Pollution Prevention and Reduction, Ecological (Habitat) Protection and Restoration, Strategic or Emerging Issues. Grants available only for projects in the Great Lakes Basin area.

Environmental Education Grants Program

Web site: http://www.epa.gov/enviroed/grants_apply.html

Total available: \$2-3 million

Proposals due: November 15, 2004

Supports environmental education projects that enhance the public's awareness, knowledge, and skills to make informed decisions that affect environmental quality. Requires matching funds for at least 25% of total project cost. Proposals requesting less than \$50,000 should be mailed to Regional offices and proposals requesting more than \$50,000 should be mailed to EPA Headquarters. You can increase your chances of funding by requesting \$10,000 or less through a Regional office, or \$100,000 or less from Headquarters. *Proposals for FY2005 are due in November, but funding is uncertain until federal budget is passed for 2005, see web site.*

Others

NSF Center for IPM

Web site: <http://cipm.ncsu.edu/proposals/rfa04.html>

Contact: Ron Stinner, phone (919) 515-1648, email: cipm@ncsu.edu

Due: Preproposal due November 15, 2004 (submitted online)

National Science Foundation-sponsored organization is providing "seed" grants for novel IPM research and extension with a focus on food, fiber and turf. Funding is not to exceed \$20,000/year (average \$10,000) for not more than three years.

Regional Grants

Northeastern Regional IPM Grants Program

Web site: <http://nepmc.org/grants/ripm/fy2005/rfacontents.htm>
Contact: John Ayers, NE IPM Grants Manager, Penn State Univ. (814) 865-7776, email:
 jea@psu.edu
Total available: \$610,000
Proposals due: Letter of intent due October 18, 2004; Proposal due November 22, 2004
Duration of proposal: up to 3 yrs

The RIPM program funds IPM projects in research, extension, and combined research and extension with project limits as high as \$180,000 depending on project type and number of states involved. In the most recent funding cycle approximately \$603,000 was awarded to ten projects. For the first time, some awards were made in the "critical step" project type, with limits of no more than \$15,000 over no more than 2 years.

IPM Partnership Grants Program (from NE Regional IPM Center)

Web site: http://nepmc.org/about_fund.cfm
Contact: John Ayers, NE IPM Grants Manager, Penn State Univ. (814) 865-7776, email: jea@psu.edu
Proposals due: RFA should be released in November, due January
Total available: Approx. \$500,000

This program was new in 2004. Funds were awarded to sixteen projects in several categories. Project types included state network projects, regional IPM publications, crop profiles, PMSPs and IPM surveys, critical and emerging issues, and IPM Working Group priorities. The Critical and Emerging Issues Grants are part of the Partnership Grants, but the RFA for these funds has no deadline. Proposals may be submitted at any time of the year, and will be considered as long as funds are available.

EPA Regional PESP Initiative Grants

Web site: http://www.epa.gov/oppbppd1/PESP/regional_grants.htm
Contact: Contact your regional EPA office (on website)
Proposals due: Was due August 30, 2004
Total available: FY 2004 funding totaled \$500,000

Each EPA regional office selects one project for funding. The regional offices distribute the RFP and any additional regional criteria. Projects that address the risk reduction goals of the PESP, pesticide pollution prevention, Integrated Pest Management (IPM), IPM in Schools, children's health issues related to pesticides, or those research methods for documenting the trends toward the adoption of IPM or the reduction of risk associated with pesticide use will receive priority consideration. Maximum grant award of \$40,000.

Sustainable Agriculture Research and Extension (SARE) - Northeast Region

Web site: <http://www.uvm.edu/~nesare/grants.html>
Contact: Call (802) 656-0471, Fax (802) 656-4656, email: nesare@zoo.uvm.edu
 Regional contact list at: <http://www.sare.org/about/contacts.htm#RegionalContacts>
 Pennsylvania contact: Jack Watson, Phone: 814-863-6114, Email: jackwatson@psu.edu
Programs:
Partnership Grants - Awarded for on-farm research and demonstration projects developed by agricultural professionals who work directly with farmers. Grants are capped at \$10,000. Postmark deadline of November 30, 2004.
Farmer/Grower - To test new crops, practices and systems through on-site experiments and share the results with other farmers. Grants average about \$5,200 and are capped at \$10,000. Postmark deadline of December 7, 2004.
Professional Development (Extension) - Support experienced agricultural educators in developing opportunities for extension, NRCS, and other agricultural professionals to learn about sustainable concepts and practices. Grants have ranged from \$5,700 to \$166,000. Preproposal required; deadlines typically in May.
Research and Education - Grants involve scientists, producers and others in an interdisciplinary approach to important issues in sustainable agriculture. Previous grants have ranged from \$4,300 to \$331,500; the average grant in 2002 was \$102,900. Preproposal required; deadlines are in May.
Sustainable Farmer Educator Grants - The award is capped at \$8,000 annually.
 Applications are accepted only when vacancies occur. There are currently no openings.

EPA Region 3 Strategic Agriculture Initiative Grant Program

Web site: <http://www.epa.gov/reg3wcmd/pdf/pesticides04RFPFinal.pdf>
Contact: John Butler, EPA Region III; Phone (215)814-2127; E-mail butler.john@epa.gov
Total available: \$200,000

Proposals Due: Postmarked by October 29, 2004

To reduce the risks and use of pesticides in agricultural settings and to rapidly spread available technology and information about ways to reduce dependence on the more highly toxic pesticides. Applicants must operate in EPA Region III States (DE, D.C., MD, PA, VA, and WV).

EPA Region 2 FQPA/Strategic Agriculture Initiative Grant Program

Web site: <http://www.epa.gov/region02/rfp/2005/food.htm>

Contact: Audrey Moore, EPA Region 2, phone: (732) 906-6809, email: moore.audrey@epa.gov

Total available: \$118,000 for FY2004

Due: Was due July 27, 2004

For projects that will reduce the exposure to toxic pesticides through the adoption of farm pest management practices that transition away from the use of high-risk pesticides. For projects up to 2 years. Available to region 2 only (New Jersey, New York, Puerto Rico, Virgin Islands).

EPA Region 5 Strategic Agricultural Initiative Program Grants /American Farmland Trust

Web site: http://www.aftresearch.org/grant/grant_info.php

Contact: Ann Sorensen, phone: 815-753-9349; email: asorensen@niu.edu

Total available: Approx. \$180,000

Due: Look for RFP soon (October/November 2004)

The program supports innovative efforts that enable growers to reduce their reliance on pesticides targeted for removal under FQPA while maintaining or enhancing their present income. The program is administered by the American Farmland Trust's Center for Agriculture in the Environment. Projects should focus on results or actual on-the-ground changes, rather than activities. Each award will be up to \$50,000. A total of \$225,000 is available for funding this year. Decisions will be made by February 28, 2004. The award will be available March 2004 and funding can be used for up to two years after the award. Must operate in EPA Region 5 states (Illinois, Indiana, Michigan, Minnesota, Ohio and/or Wisconsin).

EPA Region 10 Strategic Agricultural Initiative Program Grants /American Farmland Trust

Web site: http://www.aftresearch.org/grant/grant_info.php

Contact: Ann Sorensen, phone: 815-753-9349; email: asorensen@niu.edu

Total available: Approx. \$200,000

Due: Look for RFP soon (October/November 2004)

The program supports innovative efforts that enable growers to reduce their reliance on pesticides targeted for removal under FQPA while maintaining or enhancing their present income. The program is administered by the American Farmland Trust's Center for Agriculture in the Environment. Projects should focus on results or actual on-the-ground changes, rather than activities. Each award will be up to \$50,000. Funding can be used for up to two years after the award. Must operate in EPA Region 10 states (Washington, Oregon, Idaho and Alaska).

Northeast Region Agricultural Risk Management Education Competitive Grants Program

Web site: <http://www.necrme.org/projects.htm>

Contact: Dr. Don Tilmon, phone 302-831-1325, email: htilmon@udel.edu

Proposals Due: Look for RFP beginning of November

Total Available: \$500,000 should be available for 2005

The program will be result-oriented and will focus on comprehensive risk management education (RME) for agricultural producers in the Northeast Region. It will address regional and local risk management issues and encourage multi-state, multi-organization partnering in program delivery. Proposals must focus on delivery of educational programs at the producer level. Proposals that incorporate strategies for improved marketing, labor management, and/or financial management into the delivery of producer programs, will be given priority for funding.

PA State Grants

DEP Environmental Education Grants

Web site: <http://www.dep.state.pa.us/dep/deputate/enved/EnviroEd/EnviroEdGrantsPro.htm>

Proposals due: Pre-application letters postmarked by December 17, 2004

To help schools, & other organizations develop projects to increase environmental literacy among Pennsylvanians. Grant amounts vary from \$1,500 for mini-grants to \$10,000 and \$20,000 on seven tracks designed to address specific topics identified as gaps in the environmental education community. Topics include: sustainable energy sources such as solar, wind, biomass and geothermal, and technologies such as alternative transportation fuels; air quality issues with focus on ground-level ozone and particulates, transportation and

electric-generation; and watersheds and wetlands, focusing on acid mine drainage, non-point source pollution and water conservation in Pennsylvania. Also, schools may apply for money to integrate the Academic Standards for Environment and Ecology (standard 4.5 is IPM) into formal curriculum, or to provide lessons and field experiences that include standards based instruction. Professional development workshops or educational resources could also be funded by this grant.

Pennsylvania Department of Agriculture Research Program

Contact: Fred Wertz, PDA, phone: (717) 783-3577 (no web site info)

Proposals due: Preproposals will be solicited Feb-March of 2005

The Pennsylvania Department of Agriculture provides a competitive research grant program on an annual basis. Over the last several years this program has funded several hundred thousand dollars worth of IPM research. Sample topics solicited in the past by PDA include integrated pest management or biocontrol approaches for weeds, flies, deer and rodents; poultry IPM; the impact of transgenic crops on pest management; IPM in schools including buildings, food service and school grounds; and apple maggot management for export-bound apples. Projects funded must be agricultural research projects. For FY 05-06, the total amount available will be approximately \$500,000. The RFP is released 9 months prior to actual start date of projects, so the spring 2005 solicitation will be to fund projects starting January 1, 2006. Penn State pre-proposals must be sent through the College of Ag Dean's Office. Others can send pre-proposals directly to Fred Wertz.

Pennsylvania IPM Program Mini Grants

Web site: <http://paipm.cas.psu.edu/pdf/ipmrfp.pdf>

Contact: Dr. Ed Rajotte, phone (814) 863-4641, email: egrajotte@psu.edu

Proposals Due: Due October 15, 2004

Total Available: Approx. \$20,000 depending on program funding levels

Targeted mainly at county personnel to promote IPM locally. Proposals must focus on delivery of educational programs at the producer/consumer level. Can be used to test new ideas in preparation for state, regional and national proposals. Proposals must be submitted electronically via email by the due date.

Other Useful Information

National Science Foundation Grant Opportunities

Web site: <http://www.nsf.gov/home/programs/recent.cfm>

A compilation of funding opportunities at NSF. Includes general descriptions of programs and research areas for each NSF Directorate as well as sources for more information.

Natural Resources Conservation Service (NRCS) EQIP

Web site: <http://www.pa.nrcs.usda.gov/programs/eqip2003.html>

PA Contact: Noel Soto, PA EQIP Manager, phone: 717-237-2173, email: noel.soto@pa.usda.gov

Natural Resources Conservation Service, while not providing a competitive grants program for IPM, does have an extensive program to provide financial incentives to farmers for adopting conservation practices such as IPM practices.

Community of Science

Web site: <http://fundingopps.cos.com/>

Comprehensive, searchable database of funding opportunities in the sciences.

Edwin G. Rajotte, Professor of Entomology and IPM Coordinator

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