

**Department of Physics K-12 Outreach Programs
January 1, 2006 through July 31, 2006**

Physics 290M, Service Learning Outreach, meets weekly to discuss aspects associated with service learning (e.g., what students learned from their experience). Physics 290S, Outreach Assistance, allows students opportunity to assist outreach coordinators with school/classroom visits (e.g., Focus on Science) and/or with community events.

Date(s)	Event/Location	Schools Visited	K-12 Stud Reach	Comm Reach	K-12 Student Particip	Undergrad Students Particip	Activities Developed/ Collaborated On
1/4/06-5/5/06	Service Learning Outreach/Outreach Assistance	1	0	0	60	8	1
2/28/06-4/8/06	Purdue Univ. SpringFest	0	500	500	0	6	2
Totals	2	1	500	500	60	14	3

PEARLS, Physics Educational Activities, Resources, and Learning Strategies provides activities that get K-12 students excited about physical science and experiences for teachers and parents related to the importance of science, engineering, and technology. The following events were part of PEARLS:

Science/Arts Collaborations: Programs look at connections between science and the arts. The time spent during the first half year for this grant has involved planning and developing teacher professional development and assessment tools that will be used from February-April, 2007.

Date(s)	Event/Location	K-12 Teacher Reach	K-12 Student Reach	K-12 Teacher Particip	K-12 Student Particip	Activities Developed/ Collaborated On
1/6-7/2006	DLC Seed Grant: The Impact of Performing Arts on Science Learning	0	0	0	0	1
Totals	1	0	0	0	0	1

Teacher/School Consultation: This is time spent meeting with individual teachers and the Charles A. Tindley Accelerated School, Indiana's first charter school using the Accelerated Model, located on the near East side in Indianapolis.

Date(s)	Event/Location	K-12 Teachers Participating	Activities Developed/ Collaborated On
4/25/2006	Consultation, Cheryl Mc Lean, McCutcheon HS	1	1
5/18/2006	Consultation with science teachers, Chapel Hill 7 th & 8 th Grade Center, Indianapolis	3	0
5/18/2006-7/31/2006	Developed 6 th and 7 th Grade Science Scope and Sequence for Charles A. Tindley Accelerated School; met with science faculty	4	2 year-long science curricula
5/18/2006-5/24/2006	Nanotechnology display at the Indiana State Museum (asked to advise)	1	1
Totals	4	9	4

Physics on the Road visits consist of large convocation-style demonstration shows and/or small group hands-on experiences with concepts in physics for the entire school, including students, teachers, and volunteer parents. Purdue's Physics on the Road program received a \$10,000 grant from the American Physical Society (APS) to deliver shows to inner city schools not typically served. In the table D represents demo shows, H represents small group hands-on experience, * represents part of APS grant, and ^(M) represents media coverage (T.V. or newspaper).

Date(s)	Event/ Location	Schools Visited	K-12 Teach Reach	K-12 Stud Reach	Com Reach	K-12 Teach Part	K-12 Stud Part	Com Part	Act Devel Colla On
1/10/2006	D: Lafayette Christian Academy	1	2	30	0	0	0	0	0
1/18/2006	D: Stokes Elementary Lebanon, IN	1	27	540	0	0	0	0	0
1/26/2006	H: St. Luke School, Indianapolis	1	0	0	0	5	276	10	1
1/31/2006	D: Carol Wenz Elementary Paris, IL	1	14	280	0	0	0	0	0
2/2/2006	D/H* ^(M) : Sinking Fork Element Hopkinsville, KY	1	20	0	0	0	380	24	0
2/3/2006	D* ^(M) : North Drive MS, Hopkinsville, KY	1	28	574	0	0	0	0	0
2/3/2006	H* ^(M) : Highland Elementary Hopkinsville, KY	1	3	0	0	0	60	0	0
2/4/2006	D* ^(M) : YMCA Hopkinsville, KY	0	0	0	50	0	0	0	0
2/7/2006	D: Cherry Tree Element Carmel, IN	1	25	500	0	0	0	0	0
2/14/2006	D: Hobart MS Hobart, IN	1	15	300	0	0	0	0	0
2/22/2006	D: Paoli Jr. High School Paoli, IN	1	19	380	0	0	0	0	0
2/24/2006	D ^(M) : Oak Hill Middle School Evansville, IN	1	31	779	0	0	0	0	0
3/6/2006	Purdue Univ Mortar Board	0	0	0	150	0	0	0	0
4/4/2006	D/H:	1	20	380	0	0	0	0	0

	Chesterton Intermediate Chesterton, IN									
4/5/2006	D/H: Frank H. Hammond Elementary Munster, IN	1	11	0	30	6	400	36	0	
4/8/2006	Purdue Univ SpringFest	0	0	0	150	0	0	0	0	
4/11/2006	D/H*: Plaza Park MS Evansville, IN	1	20	0	0	4	614	36	0	
4/12/2006	D/H*: Perry Heights MS, Evansville, IN	1	12	0	0	3	477	24	0	
4/13/2006	H*: Thompkins MS Evansville, IN	1	0	0	0	3	698	24	0	
4/13/2006	D*: Washington Middle School Evansville, IN	1	20	499	0	0	0	0	0	
4/26/2006	D: Lynhurst 7 th & 8 th Grade Center, Indianapolis	1	6	150	0	0	0	0	0	
4/28/2006	D: IN Section AAPT	0	0	0	0	25	0	0	0	
5/16/2006	D: Frankfort Middle School Frankfort, IN	1	29	724	0	0	0	0	0	
5/19/2006	D: Jennings County Middle School	1	12	300	0	0	0	0	0	
6/22/2006 06/29/2006	Purdue Univ Minority Camps	0	0	0	100	0	0	0	0	
Totals	American Association of Physics Teachers National Meeting at Syracuse, NY	0	0	0	0	30	0	0	1	
Totals		11	20	314	5,436	480	76	2905	154	2

Teacher Professional Development Workshops are workshops offered by Purdue Department of Physics.

Date(s)	Event/Location	K-12 Teachers Participating	Pre-Service Teachers Participating
4/29/2006-04/30/2006	IN Section AAPT state meeting Purdue Physics Dept.	75	10
6/5/2006-6/9/2006	Purdue QuarkNet Center	9	1

	Purdue Physics Dept.		
6/25/2006-6/29/2006	Instrumentation Week Purdue Physics Dept.	8	0

“Inquiry Based Instruction in Nanoscale Science and Engineering (Professional Development for Grade 7-12 Teachers)” was offered July 10-21, 2006 as part of the NSF-funded National Center for Learning and Teaching in Nanoscale Science and Engineering activities: 12 teachers from 12 different schools representing three states (and Kuwait) attended.

“Building Excellence in Science Teaching through Inquiry” was offered June 12-23. This workshop is part of a 3 year collaboration that the Dept. of Physics and the Dept. of C&I has with Gary Community School Corporation (*Dept. of Physics received the funding*): 10 teachers from 5 Gary schools attended.