Education & Outreach Efforts through ComPADRE

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Projects:

APS ComPADRE Science Teacher Preparation & Informal Learning Collections

American Physical Society Society of Physics Students
NSF-funded National Science Digital Library

Partnership of Four Organizations:

– American Physical Society (APS)

– American Institute of Physics (AIP) / Society of Physics Students (SPS)

– American Association of Physics Teachers (AAPT)

– American Astronomical Society (AAS)
ComPADRE Vision:

“To create a network of collections that provides learning resources and interactive learning environments that positively influence physics and astronomy students and their teachers in both individual and collaborative settings.”
Existing Resource Collections

- **Astronomy Center** - Introductory Undergraduate Astronomy Resources
- **The Nucleus** - Community Collection for Physics Students
- **PER-Central** - Resources in Physics Education Research
- **Physical Sciences Resource Center** - General Physics and Astronomy Collection
- **The Physics Front** - Resources for High School and Middle School Teachers
- **Physics to Go** - Informal Education and Outreach Materials
- **The Quantum Exchange** - Resources in Quantum Physics
ComPADRE Collection Targeted at the Public

“Physics To Go is a collection of websites where you can learn physics on your own, through games, webcasts, and online exhibits and activities.”

www.physicstogo.com
Homepage offers four regularly changing features:

– Physics in Your World
– From Physics Research
– Physics at Home
– Worth a Look

Each spotlights a specific topic & links to related resources in the library collection.
My Contributions to Physics to Go

- Search web for images & related activities to feature on Physics to Go

- Obtain image permissions from photographers
My Contributions to Physics to Go

- Compile data & compose descriptions for websites being added to the collection
"The Mission of the Physics Teacher Education Coalition is the improvement of K-12 physics and physical science teacher preparation."

The new PTEC site will go live in the Summer of 2006.
The New PTEC website will feature:

- PTEC Member Institutions’ locations, program descriptions, initiatives, & outreach programs
- Scholarship & Professional Development Resources
- Research Experiences for Teachers (RETs)
My Contributions to PTEC

- Compose emails sent to PTEC member institutions to request descriptions of their physics education programs

- Provide site feedback & suggestions
SPS Summer Internship Rewards

- Introduction to science policy
- Integration of physics education & outreach
- Enhancement of communication skills
Intern Life After the Workday

Sightseeing
Hiking
Relaxing

Visiting the WWII Memorial

Hiking in Shenandoah National Park

Watching the Otters at the Zoo
Intern Life After the Workday

Intern Dinners
Friendship
Fun!

Our 1st Sunday Night Dinner

Riding the Metro Together

Roommates…
Just Being Ourselves
Thank You

American Physical Society:
Advisor Ed Lee - Physics to Go Site Editor
Advisor Ted Hodapp - Physics to Go Principal Investigator
& PTEC Principal Investigator

American Institute of Physics / Society of Physics Students:
Jack Hehn - Director of Education, AIP
Gary White - Director of SPS
Liz Dart Caron - Intern Coordinator

ComPADRE:
Bruce Mason - ComPADRE Principal Investigator
Lyle Barbato - ComPADRE Technical Lead
Dan MacIsaac - PTEC Content Editor

Dr. Earl Blodgett - UW-RF Academic & SPS Advisor
Thank You

Alex
Pat
Katherine
Kristen
Bill
Kacey
Jackie
Andy

Erin
Questions & Answers

Ann Deml

APS ComPADRE Science Teacher
Preparation & Informal Learning Collections

American Physical Society
Society of Physics Students