



*A Rational Justification for My Actions
or
the comPADRE talk
or
How to Improve Upon a Monkey and a
Dartboard - Streamlining the
Undergraduate Summer Research
Employment Process*

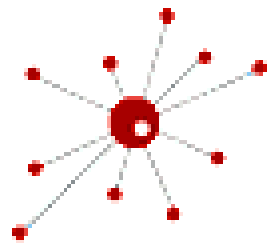
Presented by Melissa Hanafee



In The Beginning...

The National Science Foundation (NSF) is funding the National Science Digital Library (NSDL) project. Now what exactly should this entail?

What is



comPADRE

Resources for Physics & Astronomy Education

Communities for

Physics and

Astronomy

Digital

Resources in

Education

What are the elements of



- A network of well-organized, digital collections of high-quality educational materials in physics and astronomy
- Initially, five collections of materials - introductory astronomy, quantum physics, teaching resources, undergraduate resources, and public outreach
- User communities that participate in the development and operation of these collections

Can you
be
more...
specific?



THX 1138



Quantum Physics

- Target audience is sophomore through introductory graduate-level QM students and their instructors
- Will be broken into Informational Resources, Pedagogy, Learning Activities and Tutorials

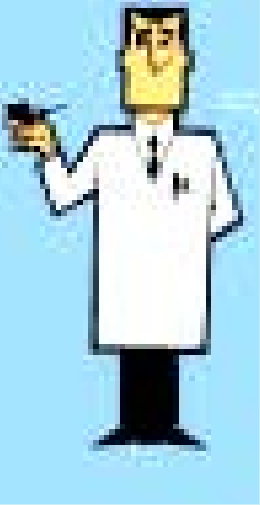
The logo for ComPADRE is set against a dark, starry background. The text "ComPADRE" is prominently displayed in a large, white, serif font. Below it, in a smaller, white, sans-serif font, is the text "Communities for Physics and Astronomy Digital Resources in Education".

ComPADRE

Communities for Physics and
Astronomy Digital Resources in Education

Introductory Astronomy

- Target audience is astronomy instructors and students, mostly at a first-year level
- Will contain Image, Information and Teaching Resources, Learning Activities, and Student Tutorials



Public Outreach

EXISTING

PhysicsCentral is an existing site done by the fine folks at the American Physical Society.

(<http://www.physicscentral.com/>)

UPCOMING

The upcoming comPADRE site will enable visitors to search for web sites of science centers that present physics, like TryScience.org.

Teaching Resources



- This site will target new and crossover professors, as well as students with an interest in teaching, be it a double major or serving as a TA, etc.
- Aims to enhance scientific literacy by providing resources for teachers.

Resources for Undergrads



- To facilitate peer interaction across schools
- To aid undergrads involved in teaching
- Text and curricular material reviews by and for undergrads
- Detailing undergraduate research opportunities and experiences

What am *I* doing?






I am currently...



- Methodically compiling a list of contacts for programs offering undergraduate research opportunities in academia, industry and government. (approx. 680 currently, including Dr. Blodgett's)
- Writing a first draft of an email that will be sent to each contact, inviting them to our site to post the information for their opportunities.
- Working with the current submission template to maximize its user-friendliness before we send out the above email.



**Advice, comments,
professions of undying
love and large cash
donations accepted at:**

mhanafee@acp.org

A close-up photograph of a green frog with dark brown spots and a white stripe along its side. The frog is sitting on a dark red, reflective surface. The background is dark and out of focus.

Got Frogs?

Any Questions?



***I'd like to thank the
Academy...***

Tracy Schwab, Gary White, Jack Hehn, Thad Lurie, Peter Reppert, Liz Dart Caron, David Donnelly, Stephanie Campbell, Jill Karsten, Earl Blodgett, Ashley Smith, Stacey Sude, Justin Stimatze, Jeff Klenzing, Phillip Pedigo, Tony Visco, and everyone else who has put their time and effort into seeing that I'm informed, busy, happy, and no crazier than usual.

For the Society of Physics Students, I have....

- ✓ Helped prepare an SPS questionnaire about the member's research opportunities this summer, learned Dream Weaver, and designed an online submission template.
- ✓ Written two articles for publication on the SPS website about the interns at the American Geophysical Union conference and the Coalition for National Science Funding evening on Capitol Hill. (<http://www.spsnational.org/networking/networking.htm>)

For comPADRE, I have...

- ✓ Networked with the contestants of the comPADRE logo competition and ensured timely delivery of notification and awards.
- ✓ Received all the undergraduate research information provided by Dr. Earl Blodgett and his SPS chapter (64 opportunities), reviewed and summarized it, and written a short report.
- ✓ Reviewed the online submission template they used, and contributed ideas to improve its user-friendliness in the next version.