



The Swift Education and Public Outreach Program

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Program Overview

- Swift E/PO Web site (<http://swift.sonoma.edu>)
- Printed materials
 - Teacher's activity booklets and posters
- Educator training
 - Conference workshops
 - Educator Ambassadors
- Informal Education
 - What's in the News? (PSU)
- Program Evaluation
- Future Plans



Swift mini-plot pads

- Newest Giveaway –at Santa Fe GRB meeting



Graphic is going to be used for new Swift educational wallsheet that accompanies GRB Educator's Guide



Swift spacecraft poster

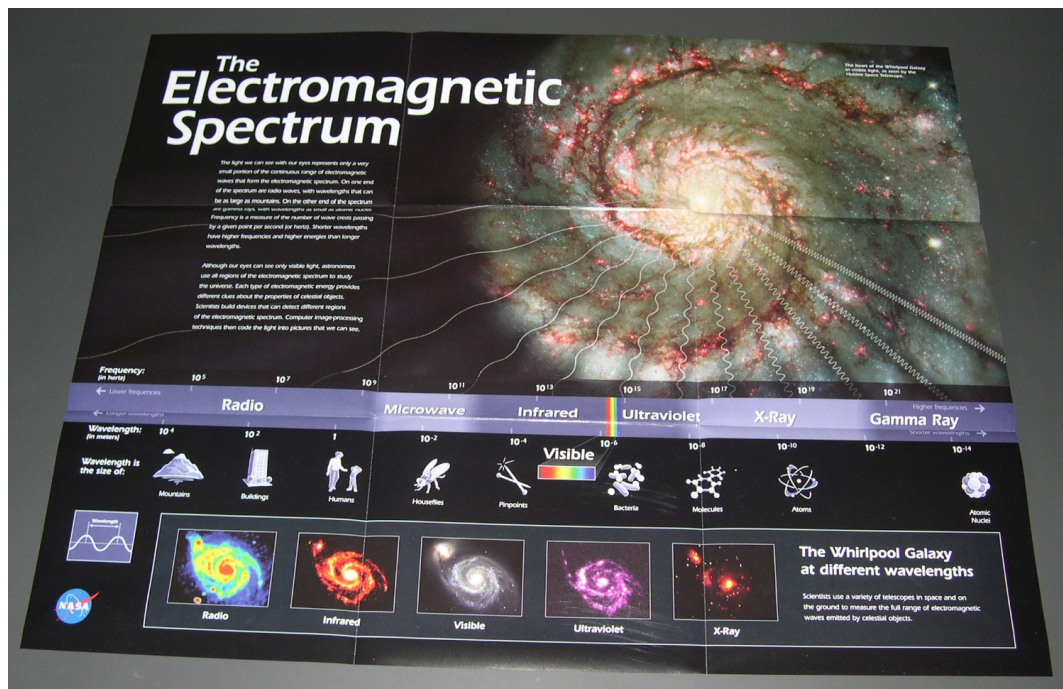


- Produced by Spectrum Astro
- Debuted at Santa Fe GRB meeting



EM Spectrum poster

- Produced by Origins Education Forum
- Has Swift GEMS #2 activity on the back



- Distributed in the 10/03 NSTA Science Teacher (High School)
- Distributed in the 5/03 NSTA Science Scope (middle school)
- 40,000 teachers!



Swift T-Shirts

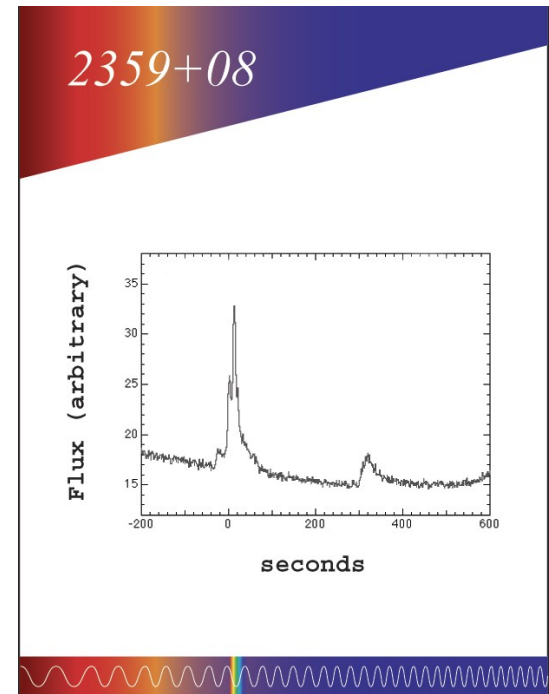
- Ready for launch
- Will be available at cost
- We need to finalize design!





New Educator's Guide

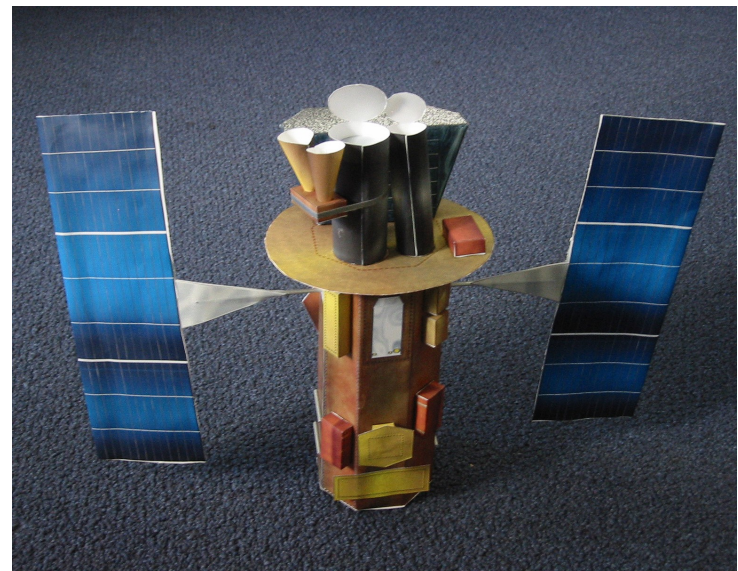
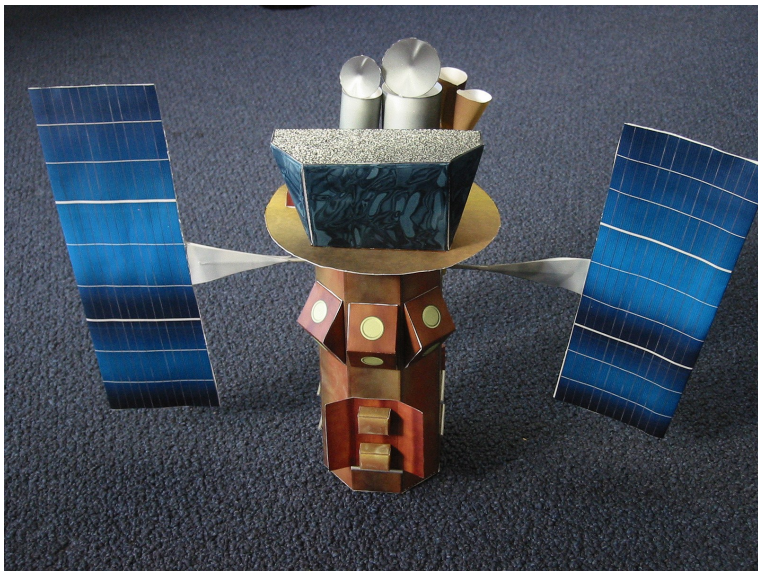
- Gamma-ray Burst Educator's Guide in progress
- Aligned with mathematics standards
- All activities now tested in classrooms or by SwEC – revisions underway





Swift model booklet

- Based on Monica Sperandio's concept (Italian)
- Now ready for review





Reaching OUT - CSTA 10/03



Beier's students doing
GEMS #2 activity

- GEMS #2 presented 10/11/03 by Cominsky and Silva
- Cosmic Zoo presented 10/12/03 by Plait and Silva
- About 40 teachers in attendance for each
- Both workshops evaluated by WestEd (Cathy Ringstaff)
- Swift materials handed out at CSTA booth



Reaching OUT

- Swift/GLAST booth at:
 - AAS (Nashville) (5/03)
 - GRB conference in Santa Fe (9/03)
 - California Science Teachers Association Meeting (10/03)
- Totals for FY2003
 - 15 Presentations to students and the public → 1569 participants
 - 26 Teachers workshops → 2369 participants
 - Origins EM posters → 40,000 teachers
 - 4 Swift WITN? → 20,000,000



- **Materials Distributed (FY2002-FY2003)**
 - Newton's Laws Poster Sets 4500
 - Spin A Spectrum Booklets 7300
 - Spin a Spectrum Wheels 4850
 - Waves booklets & Slinkies 5000
 - Who's got the power booklets and card sets 5000
 - Mousepads 1950
 - Miniplots 300
 - GEMS 1700
 - E/PO Flyers 800
- **Our web order form has sent 10,903 Swift items to date**



Educator Ambassador Presentations (since 04/03)

04/05/03: McEntyre presented, "NASA's Swift Mission and Gamma Ray Astronomy" to the National Congress on Aviation and Space Education in Cincinnati, National HQ Civil Air Patrol /TW to ~16 K-12 teachers.

04/05/03: Sparks presented "Bringing Modern Astronomy Into the Classroom" at the AAPT- Spring Meeting 2003 in Florida to ~51 teachers.

04/15/03: Beier presented "Invisible Universe" at Rockhurst University in Kansas City, MO to ~24 teachers.



Educator Ambassador Presentations (since 04/03)

05/03/03: Sparks presented "Swift and SEU Missions in Education," at the North Central Region of the Astronomical League Annual Convention in WI to ~31 teachers.

05/23/03: Beier presented "Invisible Universe" at Rockhurst University in Kansas City, MO to ~28 teachers

05/31/03: McEntyre did a workshop at Challenger Learner Center in KY with ~ 11 teachers.

07/24/03: McEntyre did a Space and Astronomy Workshop in Western Kentucky University at Bowling Green, Kentucky with ~22 teachers.



Educator Ambassador Presentations (since 04/03)

09/12/03: Sparks presented "Swift: Catching Gamma Ray Bursts on the Fly" at Skokie Valley Astronomy Club in WI to ~31 teachers.

09/15/03: Beier presented "Adventures in Air and Space," an Invisible Universe and Gems Workshop in Liberty, MO to ~25 teachers.

09/20/03: Sparks attended Astrofest: A panel discussion about the SEU Outreach and the GTN in Kanakee, IL with ~80 teachers.



Swift

Education and
Public Outreach

What's in the
NEWS

Home

This Week's Show

Utilization Guide

Past Shows

About

Behind the Scenes



**#2427—Feature:
Swift Mission**

Initial Feed: Friday,
March 29, 2002
(check local listings
for airtimes in your
area)

Special Assignment



This Show's
Materials
in PDF format.
Requires the free Adobe
Acrobat Reader

[This Week's Script](#)

- **For FY03, 4 pieces focused on GRBs**
 - **05/09/03: Hunt for Gamma Ray Bursts**
 - **05/02/03: The birth and death of stars and Swift observations**
 - **04/04/03: Gamma Ray Burst History**
 - **03/21/03: Mapping of Ancient Universe**
- **First segment for FY04 already drafted, and under production**
- **Deals with Swift environmental testing**



Program Evaluation

- **WestEd evaluations during FY2003**
 - AAPT workshop at the AAPT in January 2003
 - The Swift Gamma-ray burst activities draft
 - Newton's Laws Poster set (focus group telecon in 11/03)
 - Preliminary Swift Launch plans
- **SwEC**
 - Met at SSU in 8/03 – report now available
 - Two master teachers have agreed to become Educator Ambassadors, joining existing two EAs



Program Evaluation

- **SwEC evaluated old Swift E/PO products**
 - Who's got the power? – will not be continued
 - Spin a Spectrum – may be useful for language arts/literacy integration
 - Waves Light Up the Universe – superseded by GEMS
- **Newton's Laws posters**
 - Evaluated by NASA OSS Education Review process
 - 7 reviewers included teachers and scientists
 - Several errors were found in content – not recommended for distribution – Major revisions were required
 - Poster art is very popular, however.
- **SwEC will advise about the future of this product**



Status of Near-Future Plans

- Draft of Educator's Guide will be circulated for review by 1/04
- Swift Model Booklet now ready for review
- Swift team members needed to review both
- **PLEASE HELP!!**
- Swift launch plans still in progress – contest?
 - Essay contest for students – winner attends launch?
 - Drawing contest instead?



Preliminary Launch Plans

- GRB Educator's Guide available
- New Swift poster with GRB activity on back
- Public outreach program that focuses on launch
- Swift model booklet available
- Swift launch filmed for PBS Nova show by Tom Lucas (in conjunction with GLAST)
- Tee-shirts!