

GLAST E/PO Program Status

Science Working Group Meeting 9/18/03

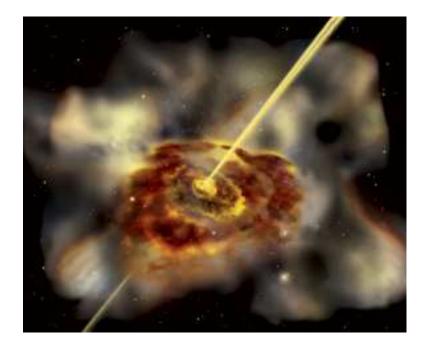
Lynn Cominsky Sonoma State University





E/PO Work Breakdown Structure

- 1) Management
- 2) EPO program evaluation (WestEd)
- 3) Web based Materials
 - Web Site continuous upgrade
 - Space Mysteries (2004-2005)
- 4) Educator Training
 - Educator Ambassadors Program
 - Conference participation
- 5) Printed materials
 - TOPS Lesson Modules
 - Posters and Activities
- 6) SLAC Virtual Visitor Center (2004)
- 7) PBS documentary (Tom Lucas Productions) (2003-2005)
- 8) GLAST Telescope Network







Educator Training

- Workshops and Meetings in 2003 since last SWG
- 3/27/03 Phil Plait and EA Daryl Taylor did TOPS workshop at National Science Teachers Association
- 4/11/03 Lynn Cominsky and EA Mike Ford did TOPS workshop at National Council for Teachers of Mathematics
- 4/11/03 EA Tim Brennan presented "Where particle physics meets orbiting astronomy: NASA's GLAST Program" at the AAPT-regional meeting in Williamstown, MA
- 5/5/03 EA Teena Della presented "The Educator Ambassadors of GLAST" to the B.C. Colleges and Universities Earth Sciences Articulation Meeting, Malaspina University College, Nanaimo, BC
- **5/10/03** EA Teena Della presented "Creating and Teaching Astronomy" to Learning Online in BC
- 7/12/03 EA Teena Della did a GLAST presentation to K-12 teachers at Simon Fraser University in Burnaby, British Columbia, Canada





Educator Training

- Workshops and Meetings in 2003 since last SWG
- 5/15 and 5/27/03 EA Tim Brennan presented "History of Telescopes" to students at Pomfret Elementary School, Pomfret, VT
- 7/20/03 EA Tim Brennan presented "Where Particle Physics Meets Orbiting Astronomy: NASA's GLAST Program and the Future of Gamma-Ray Astronomy" at Spaceshop XX held at Tufts University, Medford, MA
- 8/1/03 EA Tim Brennan presented "Where Particle Physics Meets Orbiting Astronomy: NASA's GLAST Program and the Future of Gamma-Ray Astronomy" plus "Invisible Light Sources and Detectors in Maine
- 7/29-30/03 EA Daryl Taylor presented 'Wal-Mart Fizzix' and 'NASA in the Classroom' to the Bay District Schools, Panama City, FL
- **3/17-21/03** EA Jason Smith presented "The science behind the GLAST Mission" in 16 Classroom Visits, in Marquette, MI
- 5/1/03 EA Jason Smith presented "The GLAST Mission and the Technology of Exploration" at Space Day at St Mary's Star of the Sea Catholic School, Carnarvon, WA





Educator Training

- 5/26/03 EA Jason Smith presented "The GLAST Mission & Space Mysteries" at the Alexandria City Schools Professional Development Day, VA
- 4/26/03 EA Mike Ford presented GLAST teacher workshop at the Kansas Association of Teachers of Science
- Workshops and Meetings in 2003-4 (submitted)
 - **10/03** EA Jason Smith will present The Gamma Ray Universe at the NSTA Eastern Regional in Louisville, Kentucky.
 - 10/03 –Lynn Cominsky and Sarah Silva will present AGN workshop at CSTA in Long Beach, CA
 - **11/03** EA Mike Ford will present Astronomy with GLAST, and the GLAST Telescope Network (GTN) at NSTA Mid-west Regional in Kansas City
 - 12/03 Lynn Cominsky and Sarah Silva will present AGN activities at the NSTA Western Regional in Reno, NV





AAS in Nashville (5/03)
GRB 2003 in Santa Fe
CSTA in Long Beach, CA (10/03)







Printed Materials and Curriculum Development

• TOPS (Ron Marson)

- Far Out Math in print, advertised in recent TOPS IDEAS flyer
- Draft of second module now in review
- GLAST AGN Materials
 - Educator's guide NOW AVAILABLE!
 - 5000 guides and posters printed by GPO
 - Recommended for broad distribution with minor revisions by NASA Educational Products Review Process
- New GLAST spacecraft poster
 - Printed by Spectrum Astro
 - Same image used on Mini-pad giveaways and in magic cube





Designed by Aurore Simonnet







PBS Television Special

- PBS Television Special (2003-2005) (R4, R6)
 - Subcontract with Thomas Lucas now in place
 - Program outline now in development
 - Focus on GRBs and Black Holes
 - 1 2 hour program on PBS NOVA
 - 10:1 cost-sharing by NSF, PBS & others vs.
 GLAST
 - NSF proposal in the works for cost sharing, planetarium shows and educator's guide
 - Will include Swift launch







GLAST Telescope Network

- RTS-1 (SSU robotic telescope)
 - Now working at SSU Observatory
 - Flat fielding of CCD in progress, polar aligned
- Subcontract negotiated with California Academy of Sciences to locate RTS-1 at Pepperwood
- Site construction underway,
- Dome on order, due to arrive 10/23
- Expect to move RTS-1 to Pepperwood by November, 2003 (weather permitting)
- GLAST scientists needed to partner with AAVSO







Other activities

- PBS special NSF proposal submitted favorably reviewed
- Expect Funding recommendation from NSF due in October
- WestEd has reviewed TOPS, NSTA and NCTM workshops during 2003
- UC Santa Cruz activities continued
- Next poster/activity set will feature supernova remnants, joint with XMM-Newton
- GLAST brochure design continuing need hardware photos
- Magic cubes should arrive by the end of September, 2003
- Space Mysteries concepts now entering story board phase





Summary

- E/PO program functioning smoothly
- Educator Ambassadors in high gear
- Products are being completed and widely distributed – with favorable reviews from NASA

