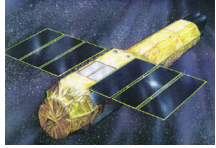
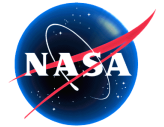

Suzaku
Education and Public Outreach

Jim Lochner
Suzaku E/PO Lead

May 3, 2007



E/PO Team



GSFC Team

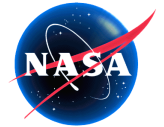
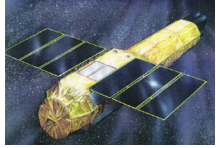
- Dr. James Lochner (Lead)
- Drs. Koji Mukai, Ilana Harrus (Suzaku GOF)
- Beth Barbier, Sara Mitchell (E/PO specialists)
- Pat Keeney (Education Consultant)

Partners

- SEU Educator Ambassadors (Sonoma State Univ.)
- Cornerstone Evaluation Associates

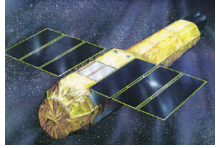


**CORNER
STONE**
EVALUATION
ASSOCIATES

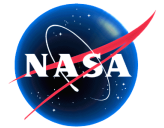


Budget and Leveraging

- Procurement Budget
 - FY07: \$126K
- Efforts also leveraged off of HEASARC E/PO resources.
 - Sharing of personnel and expertise.



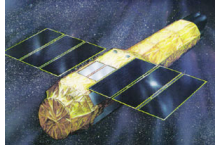
Suzaku Learning Center



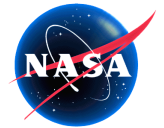
Learning Center includes

- Science and technology about mission and instruments.
- Lesson plans and resources for teachers.
- “XRS Road Trip” - blog of the XRS while in Japan.

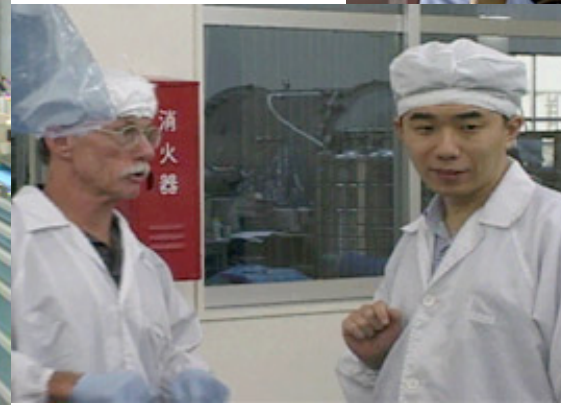


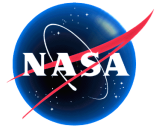
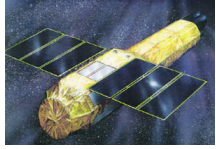


“Building the Coolest X-ray Satellite”



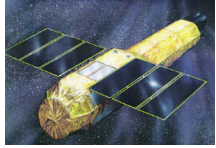
- Video tells story of Astro-E2, fabrication of mirrors, development of XRS. Science as it's really done.
- Distribute DVD and Teacher Guide at Workshops and Conferences.
 - NASA Education Product Review: “Broad Distribution”



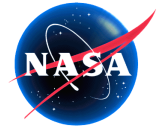


Teacher Workshops

- Since 2004, we've presented Astro-E2/Suzaku workshops:
 - At NSTA National and Regional conferences
 - At New York State Science Teacher Conference
 - At GSFC, e.g. for NASA Explorer Schools and Anne Arundel Co. Earth/Space Science Teachers
- We present a variety of topics depending on audience.
 - X-ray Optics
 - Spectroscopy
 - Results from the mission
 - International collaboration
 - Science/Engineering careers.

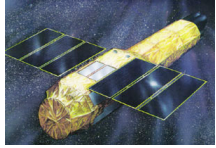


Educator Ambassador

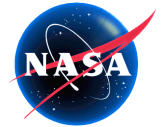


- Educator Ambassador: Marie Pool
 - Our EA develops and conducts Suzaku Educator Workshops at national and regional teacher conferences.
 - She goes to meetings we can't
 - Entire team of 25 EAs (administered via Sonoma State) review our materials.

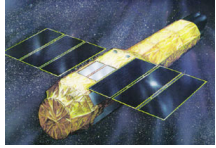




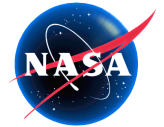
Extreme Universe Toolkit



- Astronomical Society of the Pacific develops kits for amateur astronomy clubs in their Night Sky Network.
 - Clubs use them in their outreach efforts.
- ASP has system in place for testing content and activities with amateurs.
- In collaboration with Suzaku E/PO team and NASA E/PO group at Sonoma, ASP is developing kit on the powerful explosions and forces that shape the universe:
 - Supernovae and GRBs are normal processes.
 - SN and Black Holes shape universe and sow seeds for life.
 - X-rays and γ -rays are released from death of stars.
 - Earth's atmosphere protects us from this radiation.
- Candidate activities being developed for α -testing with us and amateurs.



Suzaku News You Can Use (Suznuz)



[Sign up to receive email versions of these newsletters!](#)

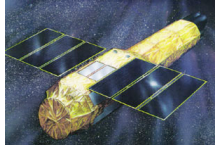


Suzaku News You Can Use

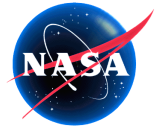
Volume 2 - Number 1

22 February 2007

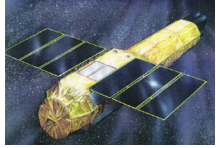
- A newsletter for teachers featuring information, discoveries, and news about the mission.
 - Also includes history of X-rays and X-ray astronomy
 - Focus on team members: Jean Cottam, Randall Smith, Kai-wing Chan (UG members ??)
- Written by Pat Keeney
 - Science verified by E/PO team
 - Edited by Beth Barbier
- E-mail Subscription list of ~ 500



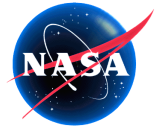
Spectroscopy Video



- Explains spectroscopy through analogy with music.
- Target Audience: high school
- Video ~ 10 minutes in length
- Script in penultimate draft
- Project headed by Ilana Harrus



Suzaku in the News



Give Students Tools for Science Literacy

- Trace different ways science is communicated
 - Scientist to Scientist
 - Scientist to the Media
 - The Media to the Public
- Science Lessons based on chosen science topic.
- Students develop comprehension skills using various expository pieces.
- Students role-play scientists and media to hold a press briefing. “Press” students write articles for various audiences.