

Galatea Odyssey: World Contact

A Global Educational Project

Professor Guillermo Trotti

Professor Dava Newman

Contact Information:
28 Waldron Court
Marblehead, MA 01945
(781) 631-7750; (617) 791-6622; fax (617) 253-4196
E-mail: dnewman@mit.edu; TROTTIG@aol.com

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G. Trotti and D. Newman

Galatea Odyssey: World Contact

- Mission
- Educational Adventures
 - Oral History Contact
 - Science & Technology Contact
 - Geography & Exploration Contact
- Schedule
- Opportunities for Involvement
- Sponsors

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Mission

To promote educational ideas on science and technology and global change among students around the world from their personal, cultural perspective; and to actively participate in the circumnavigation of the sailing vessel Galatea.

Contact takes place through hands-on activities, workshops, and talks while communicating from world sites.

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Three Global Educational Adventures

Teachers and students are invited to actively participate in:

- *Oral History Contact*
- *Science and Technology Contact*
- *Geography and Exploration Contact*

Contact will be made in person and through a living, evolving web site.

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Educational Themes – 1

Oral History Contact Objectives:

- Students around the Earth will record their feelings, knowledge, and stories of global change in the past three generations (students, parents, and grandparents).
- Results: three generations of oral history reflecting on the changes and similarities in lifestyle and tradition throughout the last century.
- U.S. schools will be paired with international schools to share, communicate, and learn the oral histories of one another.

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Educational Themes – 2

Science and Technology Contact Objectives:

- Seminars offered:
 - Living in Space and Sea: Contact with Astronauts and Sailors
 - Exploration of Space and Future Contact
- Live video conferences with NASA astronauts & scientists
 - Astronauts: Buzz Aldrin, Cady Coleman, Mike Massimino, Paulo Nespoli (ESA)
 - Mars Engineers and Scientists: Dave Lavery, JPL scientists & engineers
- Real-time space mission data brought into the classroom (Mars Odyssey, Mars Surveyor, and the Int'l. Space Station)
- Live robotic and teleoperation workshops from the sailing vessel Galatea
 - Red rover robots in action
- State-of-the-Art Navigation Technologies

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Educational Themes – 3

Geography and Exploration Contact:

- Track and participate in Galatea's circumnavigation
 - Current location
 - Weather
 - Ocean conditions
- Environmental commentaries and photography
 - Global sea, land, atmospheric, and wildlife *contact* and observations
- GPS, Radar, RayNavigation software
- Living web site

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Sharing of Knowledge

- International participants and numerous US schools
 - Puerto Rico (December 2001)
 - Panama (March 2002)
 - American Samoa (June 2002)
 - Australia (Darwin, August 2002; and Cocos Island, Sept. 2002)
 - South Africa (January 2003)
 - Brazil (March 2003)
 - Trinidad and Tobago (April 2003)
 - United States (Boston=home base, New York, Delaware, Philadelphia, Washington D.C., Chicago, Houston, Montana, Oregon, Seattle, and San Diego)

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Schedule

The Galatea Odyssey: World Contact

- Departure – November 2001, Boston
- Dec-Feb. 2002, Caribbean
- March 2002, Panama Canal crossing
- April-May 2002, Galapagos Islands & Pacific Ocean
- June 2002, Samoa, Fiji
- July 2002, Vanuatu, Luisiade
- August 2002, Australia
- Sept. 2002, Christmas & Cocos Islands, Indian Ocean
- Oct-Nov., Mauritius and SE Africa
- Dec-Jan. 2003, South Africa
- Feb. 2003, Atlantic Ocean to Brazil
- Mar-April 2003, Trinidad & Tobago, Caribbean
- Return – June 2003, Boston

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Face-to-Face Contact

- 4th of July, 2003 - Massachusetts Institute of Technology (MIT)
- Student ambassadors from around the world will meet to:
 - Strengthen the bonds of friendships established
 - Work on improving communications between cultures, world-wide education, and appropriate technologies
 - Actively create, build and explore
 - Propose ideas and solutions

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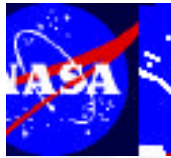
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Opportunities for Involvement

- Donate/loan hardware and software
- Logistics and field support at international locations
- Provide communication services and time
- Sponsor a student ambassador
- Video, web, and on-line support
- Public outreach and knowledge dissemination

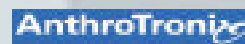
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Sponsors

- MIT (Prof. Dava Newman, Dept. Aeronautics and Astronautics, Harvard-MIT Health Sciences and Technology)
- NASA Headquarters, Mars Robotic Program
- NASA Jet Propulsion Laboratory
- NASA Astronauts
- Rhode Island School of Design (Prof. Guillermo Trotti, Dept. Industrial Design)
- Doyle Sails
- Anthrotronix, Inc.



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