

Science Party for USCGC HEALY Northwest Passage Transit – August 2003



Dale Chayes

Research Engineer

Lamont-Doherty Earth Observatory, Columbia University

Dale is the Chief Scientist for the 2003 Northwest Passage expedition of the *Healy*. A leading authority on bathymetric swath mappers as well as other complex real-time data systems, Dale has extensive experience working with both the Coast Guard and the Navy collecting much-sought-after bottom contour data in the Arctic.



April Brown

Lieutenant Commander, U.S. Coast Guard

Coast Guard Polar Icebreaker Operations

April serves as the mission scheduler and Coast Guard liaison to the National Science Foundation and other science customers. She was assigned to the *Polar Sea* during the 1994 joint expedition to the North Pole, serving as the shipboard marine science officer, deck watch officer and dive team leader for research and engineering support. She also conducted numerous dives, including at the North Pole.



Rubin Sheinberg

Chief, Naval Architecture Branch

U.S. Coast Guard Engineering Logistics Center

Rubin participated in the Arctic Ocean expeditions which reached the North Pole in 1991 and 1994. He also was extensively involved in the design of the *Healy*.



Stephanie Burkhart

Marine Biologist

U.S. Coast Guard Pacific Area Operations

Stephanie is collecting marine mammal and sea bird observations for NOAA's "Platforms of Opportunity" program.

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Marc Webber
Wildlife Biologist
U.S. Fish & Wildlife Service

An authority on Pacific walrus population management, Marc is collecting marine mammal and sea bird observations for NOAA's "Platforms of Opportunity" program.



Kevin Wood
Knauss Marine Policy Fellow
NOAA Arctic Research Office

Kevin is the NOAA Arctic Research Office POC for XCTDs. He is on board to learn something about science operations on the *Healy* and to observe the state of climate and sea ice in the Canadian archipelago, particularly as it compares to historical conditions.



Christopher Szorc
National/Naval Ice Center

Christopher is on board to track location and movement of sea ice in support of the *Healy's* transit to Barrow.



Dave Monahan
Hydrographer
Canadian Hydrographic Service, University of New Brunswick, and General
Bathymetric Chart of the Oceans

Dave's areas of interest and expertise include seafloor morphology, multibeam sonars, and the Law of the Sea. Dave has worked on Arctic seafloor morphology for thirty years and continues to do so on this trip.

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Marshall Molen

Professor of Electrical and Computer Engineering
Mississippi State University

Marshall is the principal investigator on two ONR programs pertaining to the all-electric ship and a U.S. Army program on radar power. He is also a Healey sports car enthusiast (Austin Healey). On this voyage he is participating in the Northrop Grumman power quality analysis.



Herb Ginn

Assistant Professor of Electrical Engineering
Mississippi State University

Herb is on board *Healy* to study and take real-time waveform data from the ship's electrical system. The effort is part of an ONR grant for research on the next generation of ships with electrical propulsion.



Don Chambers

Anteon Corporation/U.S. Coast Guard, Maintenance and Logistics Command Pacific

Don provides general technical and logistical support under an MLCPAC contract for *Healy*. His current task is to facilitate ONR's and Northrop Grumman's acquisition of power quality data from the *Healy* power plant.



Doug Jones

R&D Engineering Specialist
Northrop Grumman Ship Systems (NGSS)

Doug is performing a power quality study on *Healy* with four other NGSS employees and Marshall Molen and Herb Ginn from Mississippi State. The experience and knowledge gained will be used in designing future all-electric ships for the Navy and in verifying electrical simulation programs.

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Anthony (“A.K.”) Allen
Electrical Technician
Northrop Grumman Ship Systems (NGSS)

A.K. is part of the Northrop Grumman team performing a power quality study on Healy with Marshall Molen and Herb Ginn from Mississippi State. The experience and knowledge gained will be used in designing future all-electric ships for the Navy and in verifying electrical simulation programs.



Darren Brick
R&D Engineering Specialist
Northrop Grumman Ship Systems (NGSS)

Darren is part of the Northrop Grumman team performing a power quality study on Healy with Marshall Molen and Herb Ginn from Mississippi State. The experience and knowledge gained will be used in designing future all-electric ships for the Navy and in verifying electrical simulation programs.



Charlie Ford
R&D Electrical Engineer
Northrop Grumman Ship Systems (NGSS)

Charlie is part of the Northrop Grumman team performing a power quality study on Healy with Marshall Molen and Herb Ginn from Mississippi State. The experience and knowledge gained will be used in designing future all-electric ships for the Navy and in verifying electrical simulation programs.



Travis St. Pierre
R&D Electrical Engineer
Northrop Grumman Ship Systems (NGSS)

Travis is part of the Northrop Grumman team performing a power quality study on Healy with Marshall Molen and Herb Ginn from Mississippi State. The experience and knowledge gained will be used in designing future all-electric ships for the Navy and in verifying electrical simulation programs.

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David Huntley
Mooring/ADCP Technician
University of Delaware, Newark, Delaware

David has sailed on Canadian icebreakers since 1997 and involved himself in all aspects of sea-going oceanography. He has been onboard *Healy* since early in the 2003 science mission, and previously worked on the preparation and deployment of moored instruments. During this portion of the cruise, he will focus on Acoustic Doppler Current Profilers (ADCPs).



Joe DiGiovanni
Systems Administrator
Civilian with U.S. Coast Guard

Joe is in charge of the computer operations for the science community on board. He maintains a science data network, a system within which scientists can store and share data as it is being collected. He also handles electronic transmissions within, as well as off the ship so that e-mail and information can be sent to labs and families.



Yves Sivret
Ice Service Specialist
Canadian Ice Service

Yves' main job is to advise the captain and chief scientist on ice conditions as we enter the areas that contain heavy ice floes. He also reports to his home office in Ottawa to give visual confirmation of ice conditions that have been reported by satellite images.



Bob Arko
Programmer/Analyst
Lamont Doherty Earth Observatory, Columbia University

Bob has worked on field campaigns from airborne, marine, and coastal platforms around the world; coordinating the processing, documentation, archival, and dissemination of geophysical data. He will be working with Dale Chayes on *Healy* to standardize procedures for data documentation.

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Al Martin
Public Relations Consultant

Al is from Atlanta and is on board the *Healy* for his second time. He is writing a cruise narration for Internet circulation.



Joshua Paul
Photographer
Outside Magazine

Joshua is a freelance photographer on assignment for Outside magazine. He primarily shoots travel and adventure travel assignments. His objective is partially to document the journey, but also to bring back the visual experience of the Arctic. He is interested in every aspect of this trip and hopes to have the opportunity to work with everyone and be alerted to anything and everything interesting.



Natasha Singer
Correspondent
Outside Magazine

Natasha's previous work for Outside has included feature stories about Coast Guard rescue pilots and swimmers in Kodiak, Alaska; whale rehabilitation in Iceland; rain forest conservation in Trinidad; and the annual Carhartt Ball in Talkeetna, Alaska. She wants to interview all of the "ice masters" aboard the *Healy*.



John Trone
Freelance Photographer

John's background is in Marine Science and biochemistry. He is aboard the *Healy* to document scientific and ship's operations that take place during the voyage. He's also interested in photographing the Arctic environment and the wildlife we encounter during our transit of the Northwest Passage.

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Al Hayashida

Ice Pilot

U.S. Navy Arctic Submarine Laboratory

Al rides the submarines that go to the Arctic to help the crew use the ice avoidance sonars and other special equipment, and advise the ship's CO as needed on any other aspects of under-ice operations. He has made 20 deployments to the Arctic, the latest this spring on the Seawolf class submarine USS *Connecticut*. He is riding the *Healy* to see what the Arctic looks like from above and examine what role icebreakers can play in Navy Arctic operations.



Diane (DeDe) Bentley

Data Archivist

U.S. Navy Arctic Submarine Laboratory

As a specialist in both ice mechanics and data retrieval/archiving, DeDe oversees the analysis of all of the oceanographic and environmental data collected during the Navy's submarine Arctic operations, and is striving to make as much of it as possible available for release to the scientific community at large. DeDe also serves as ASL's comptroller, managing all of the laboratory's finances. Like Al, she is riding *Healy* to examine the role that icebreakers can play in the Navy's Arctic operations, but from a scientific, vice operational, perspective.