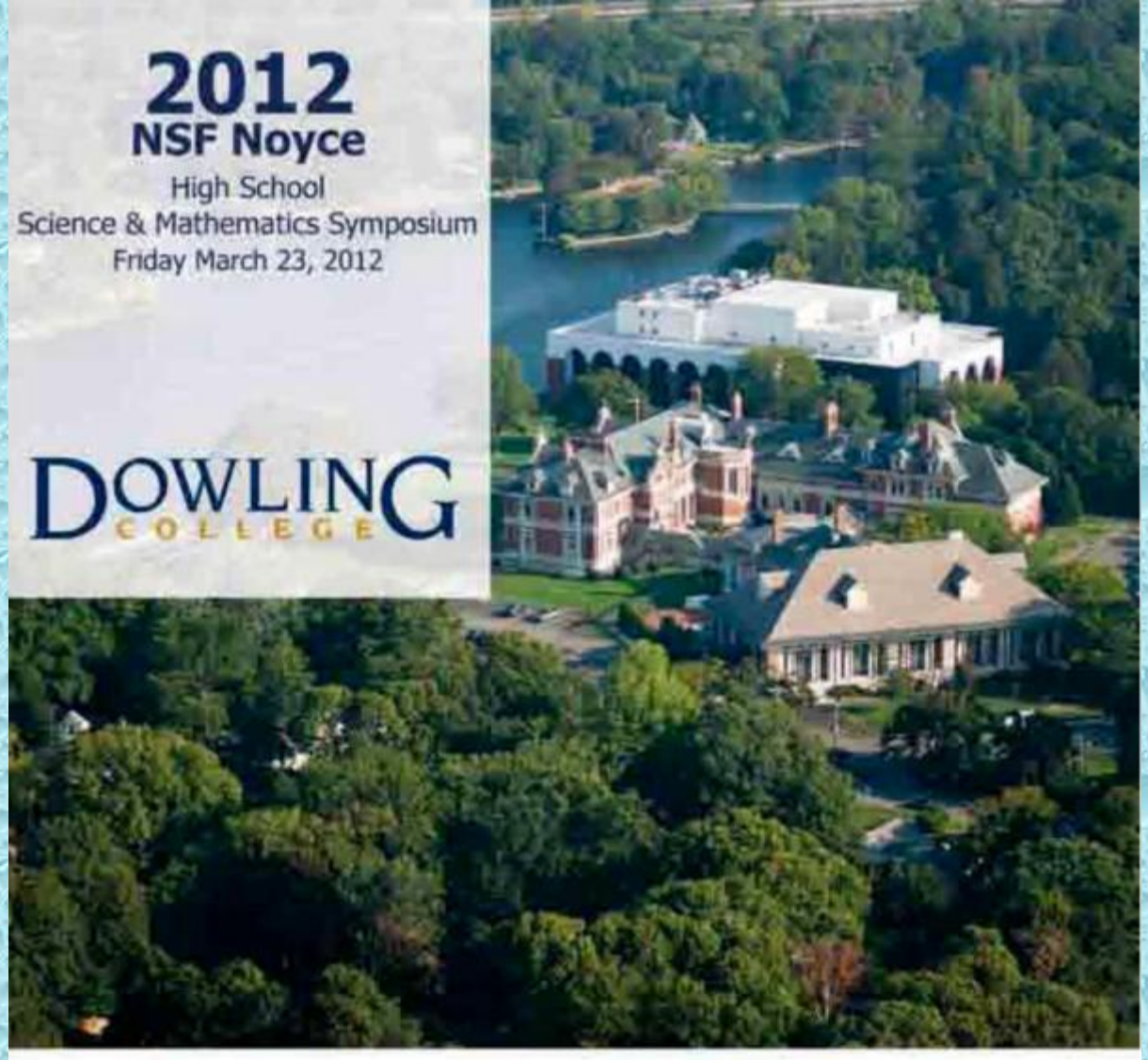
2012
NSF Noyce

High School
Science & Mathematics Symposium
Friday March 23, 2012

DOWLING
COLLEGE



By the numbers:

13 schools
150 students presenting 110 projects
each for judging by three judges
100 students attending workshops only
15 workshop presenters
20 workshop sessions
75 judges
1 outstanding educators award
1 beautiful day

Hot breakfast for all. Lunch for all

Waiting for the judges in the Mayrock Conservatory

Presenting the projects to judges,
Mel Morris of Brookhaven National Labs and
Anne McIntyre of Connetquot State Park

NYSMEA Board member and workshop presenter, Dave Stolarz checks out the projects

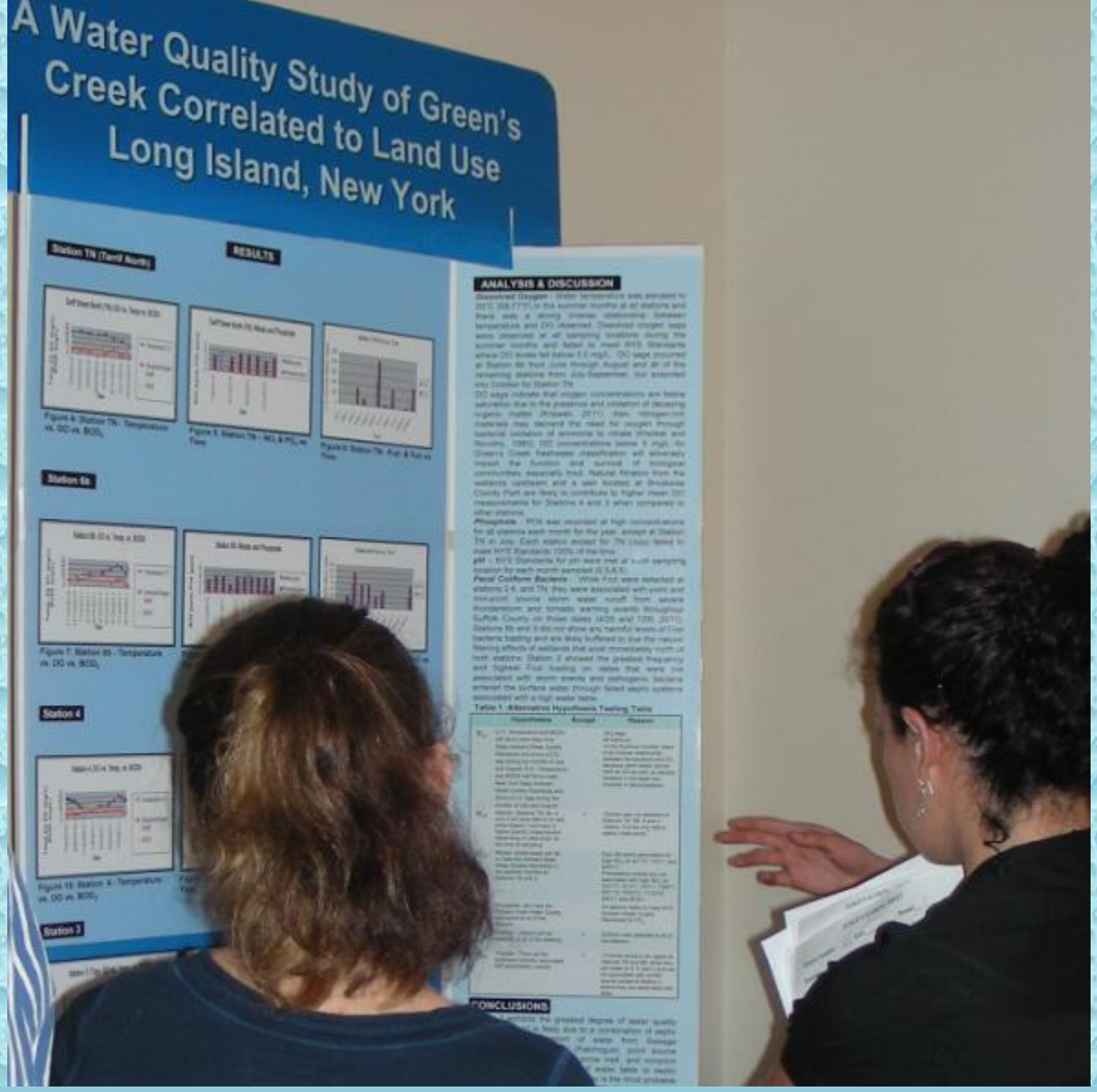
Sarah Richards, 2012 Outstanding Educator Awardee and NYSMEA Board member listens intently to presentation


Abstract
Effects of Alliaria petiolata on Salt Marsh and Forest Ecosystems on Long Island, New York
Introduction
Methodology
Introduction (cont.)
Invaded Sites
Non-invaded Sites
Hypothesis
Invaded Sites
SCHOOL SMART

Dr. Lori Zaikowski, Chair of the Dowling Department of Chemistry and Physics and conference organizer


ANALYSIS & DISCUSSION
LIMITATIONS
CONCLUSION & FUTURE WORK

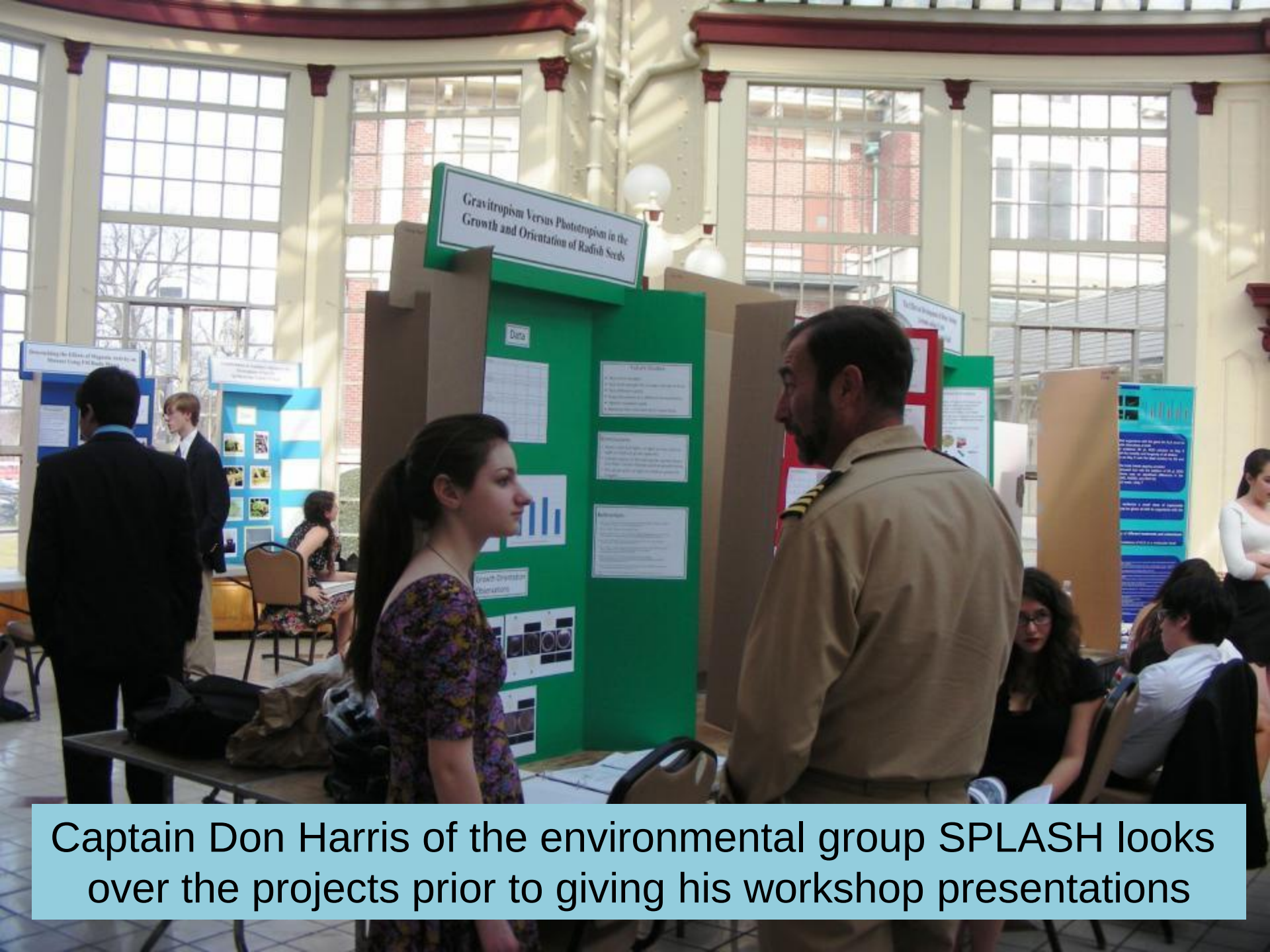
Merryl Kafka, NYSMEA Board member and workshop presenter, explores a project with a student



NYSMEA member, judge Jen Porcheddu listens to presentation of Marine Biology Award winning project by Sarah Monastero and Dara Hofmann of Sayville High School

Dan Ness of Dowling Earth and Marine Science Department interacts with student during his judging duties

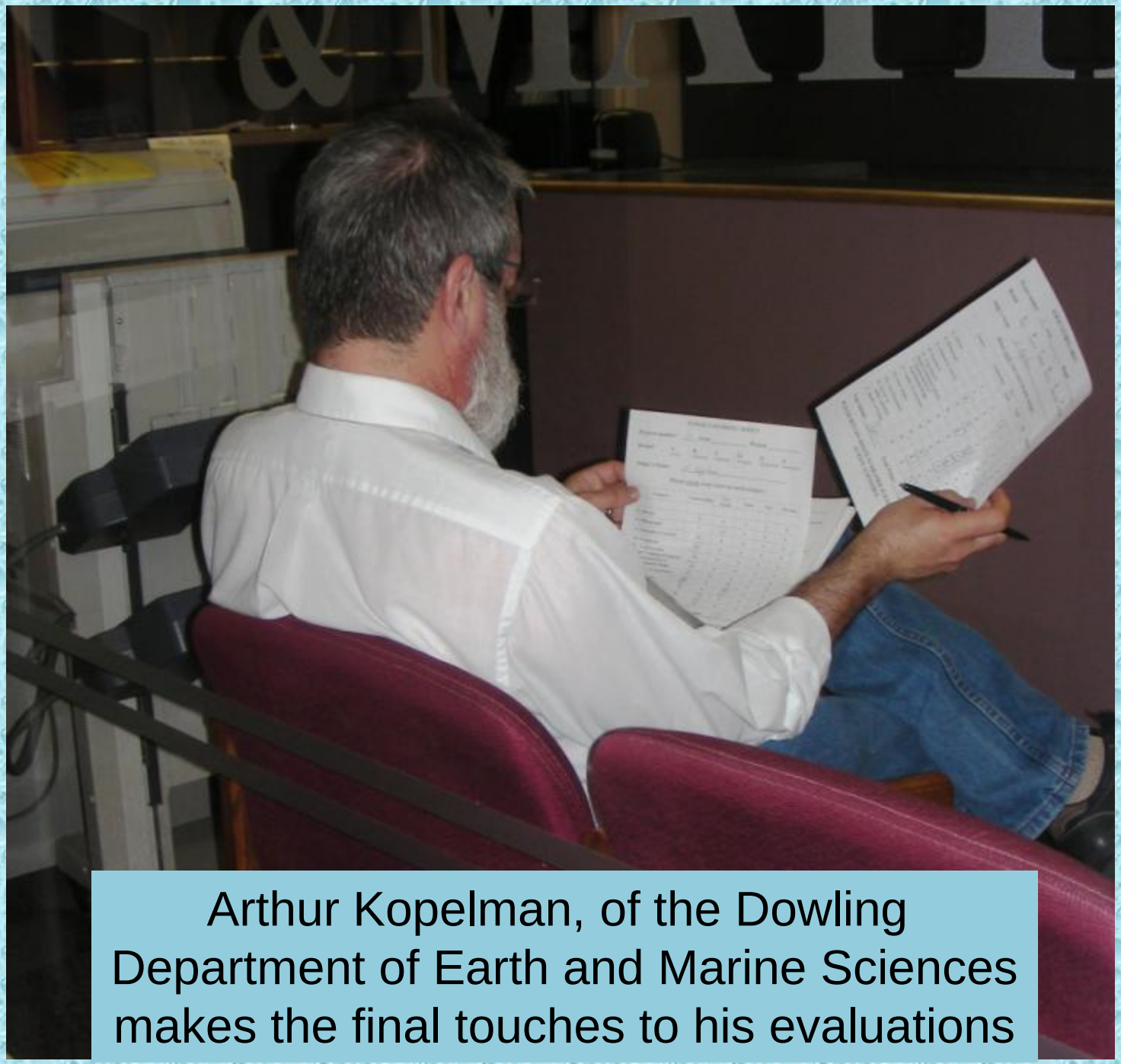
Judge Karen Eichelberger looks over project



Captain Don Harris of the environmental group SPLASH looks over the projects prior to giving his workshop presentations

Judge Robert Purdy of West Islip High School interacts with the students

Judges completing their evaluations

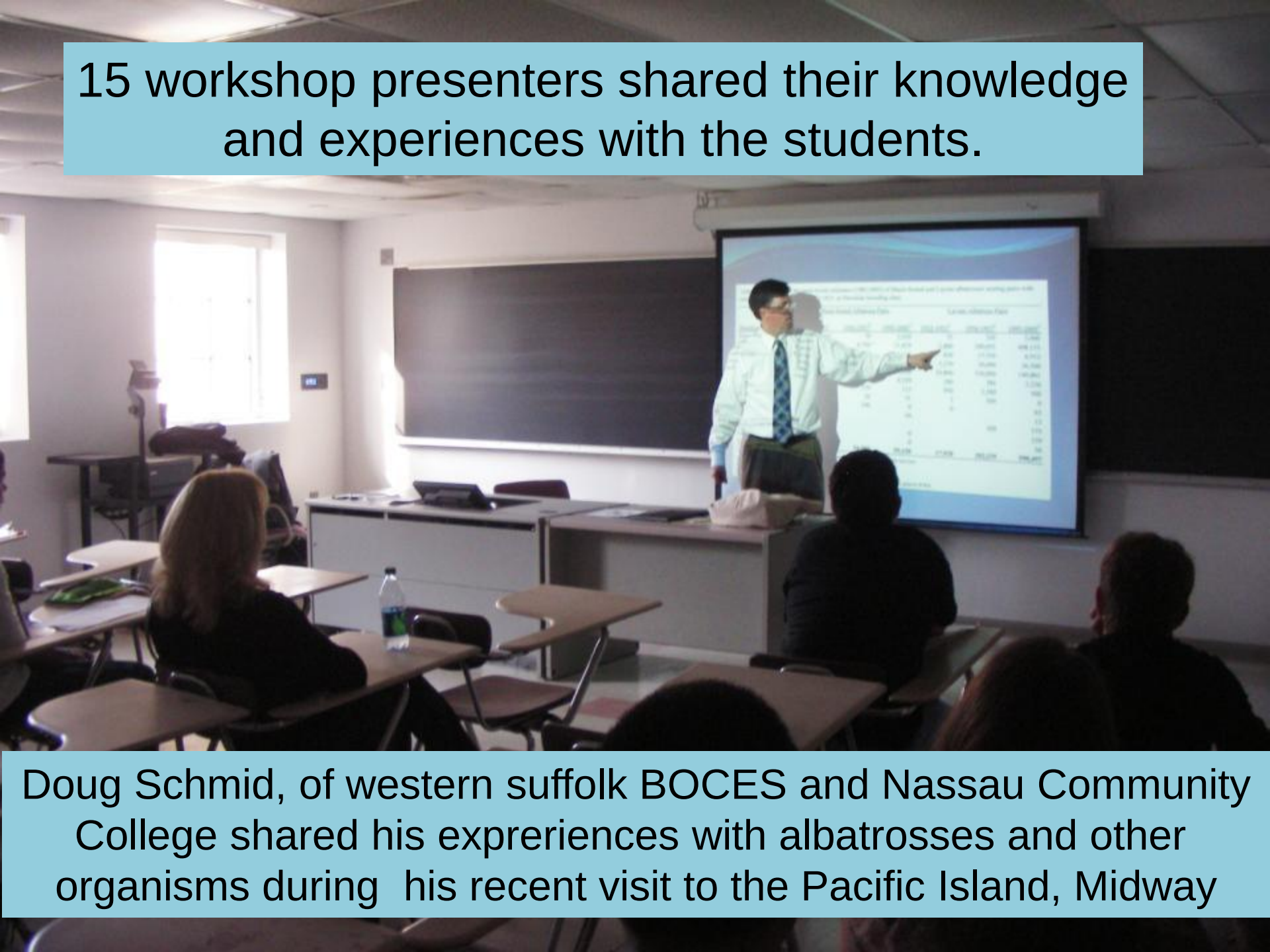


Arthur Kopelman, of the Dowling Department of Earth and Marine Sciences makes the final touches to his evaluations

The hardworking judges share a well deserved lunch after a morning of interacting with some great students

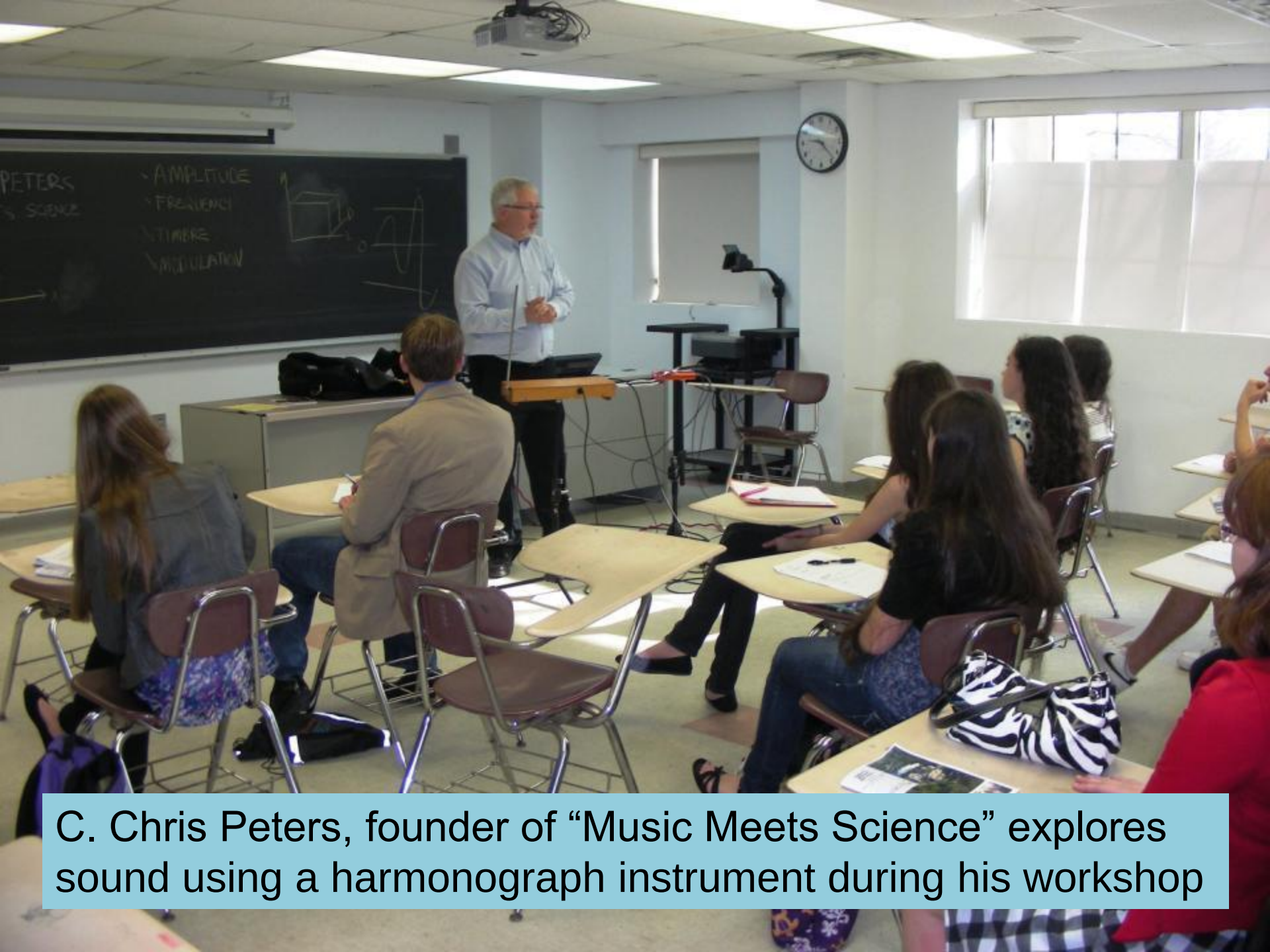
Students and judges took advantage of the great weather to explore the unique waterfront campus of Dowling College

Meanwhile the committee of NOYCE Scholars and faculty members compiled the judges forms and determined the winners in the various categories



15 workshop presenters shared their knowledge and experiences with the students.

Doug Schmid, of western suffolk BOCES and Nassau Community College shared his expreriences with albatrosses and other organisms during his recent visit to the Pacific Island, Midway



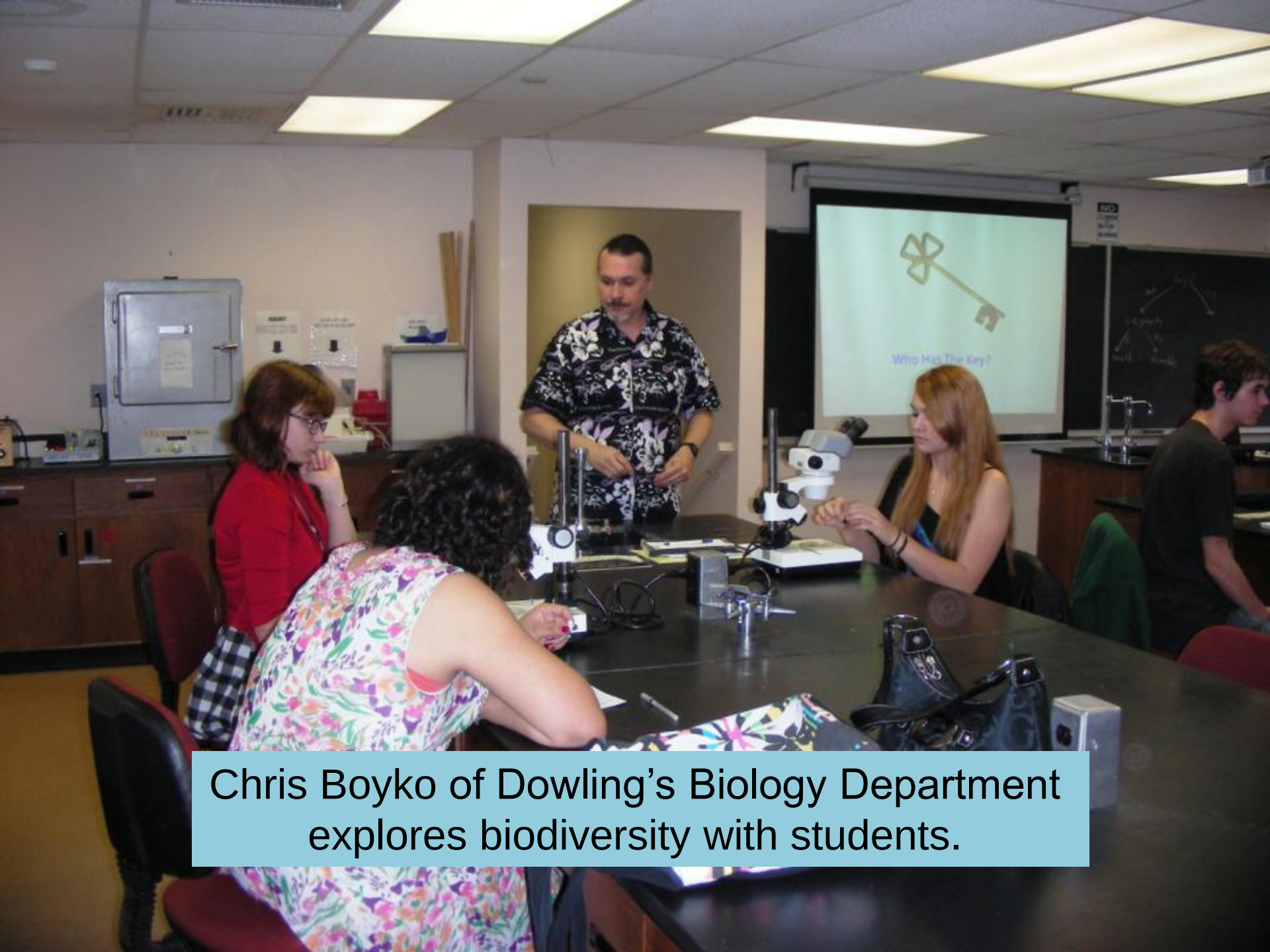
C. Chris Peters, founder of “Music Meets Science” explores sound using a harmonograph instrument during his workshop

John Tanacredi, Chair of Dowling's Department of Earth and Marine Sciences and Director of the CEECOM waterfront research center discusses the efforts to track the population and movements of the ancient animal on our shores the horseshoe crab.

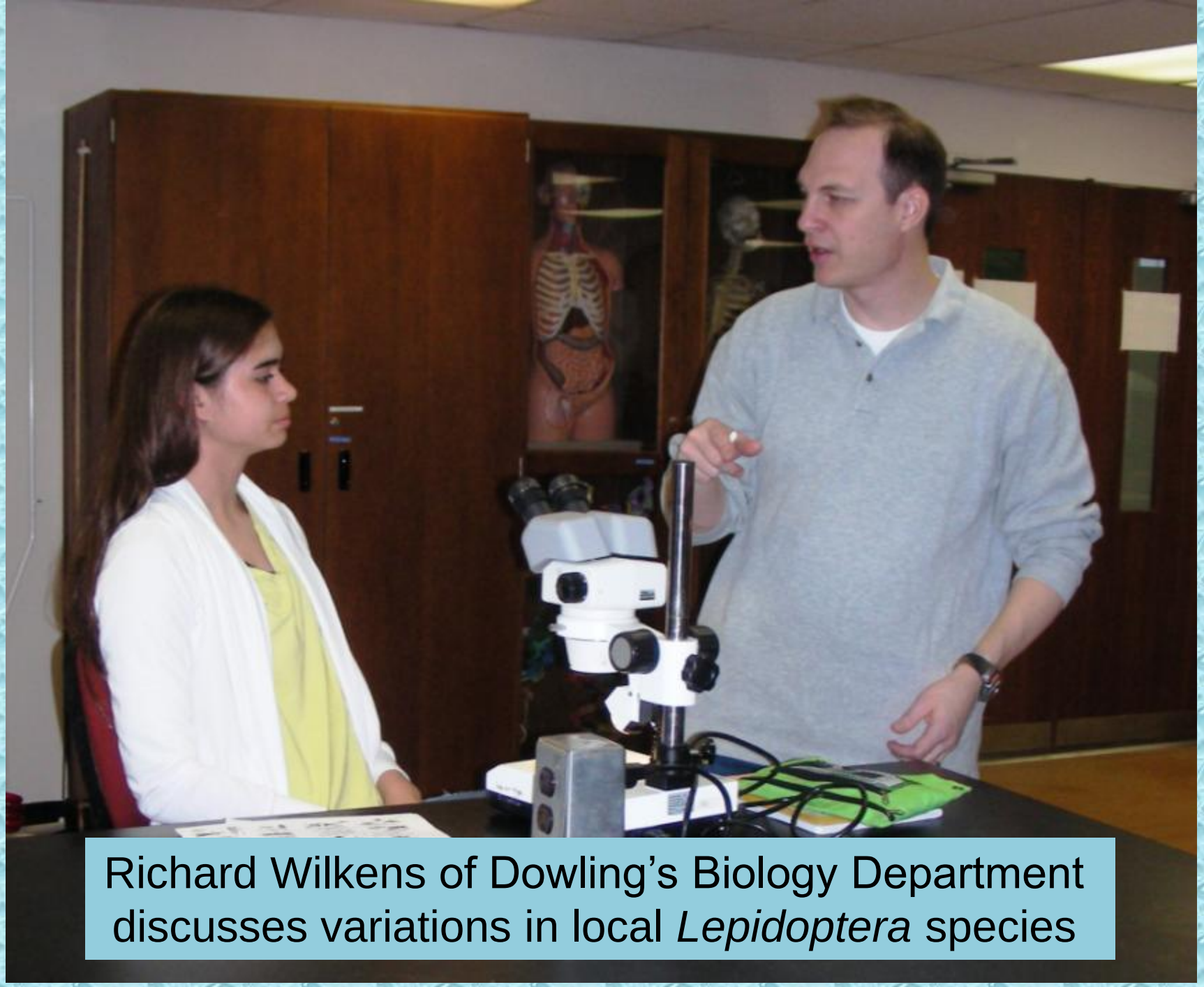
Lisa Breslof, of the American Museum of Natural History and a NYSMEA Board member talks about and shows how to preserve seaweeds

Merryl Kafka, Education Director of the New York Aquarium (retired,) and NYSMEA Board member explores Fish!


Ed Jameson, traveled down from Massachusetts
to share his unique underwater 3D presentation



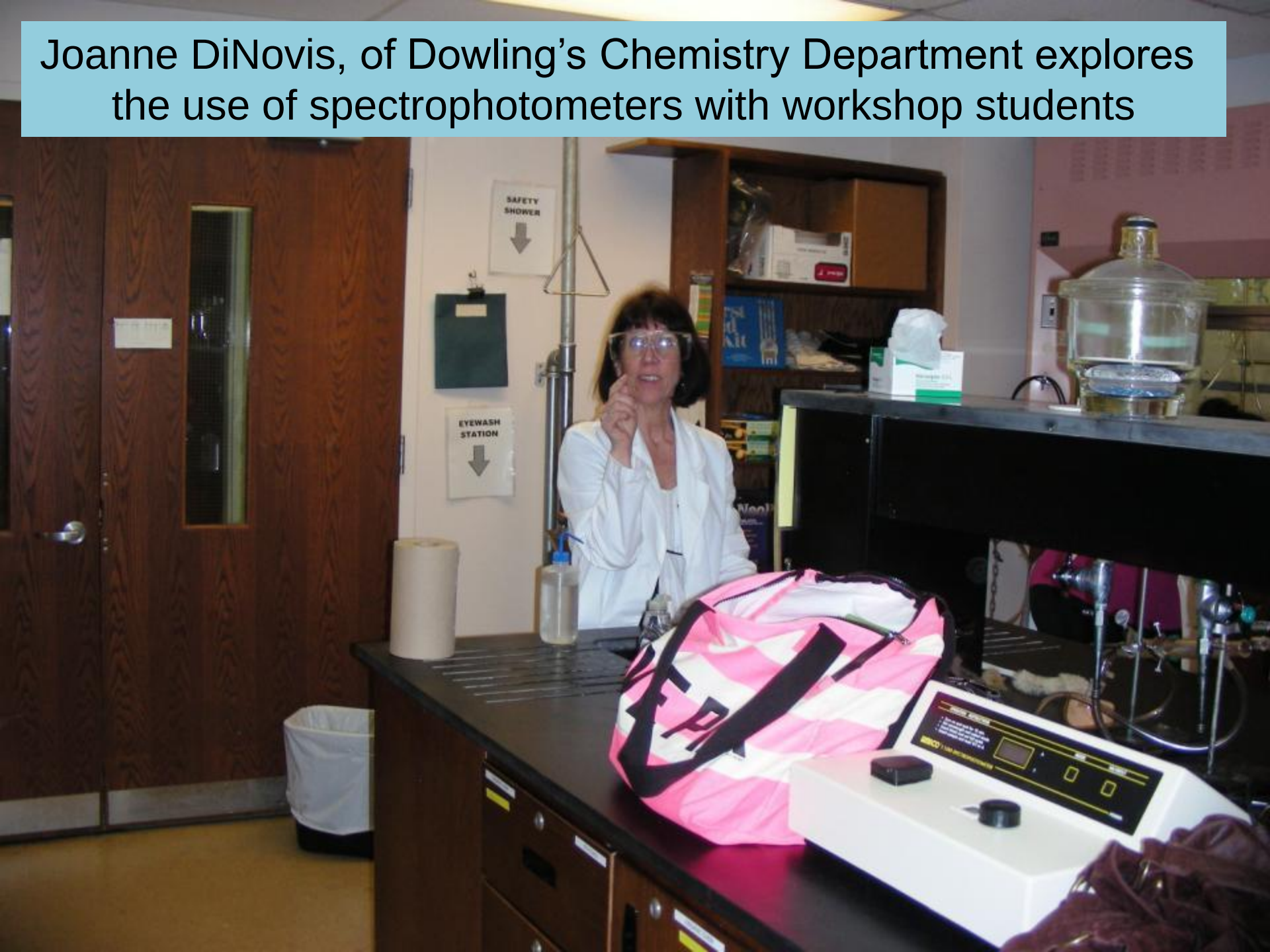
Chris Boyko of Dowling's Biology Department explores biodiversity with students.



Richard Wilkens of Dowling's Biology Department discusses variations in local *Lepidoptera* species

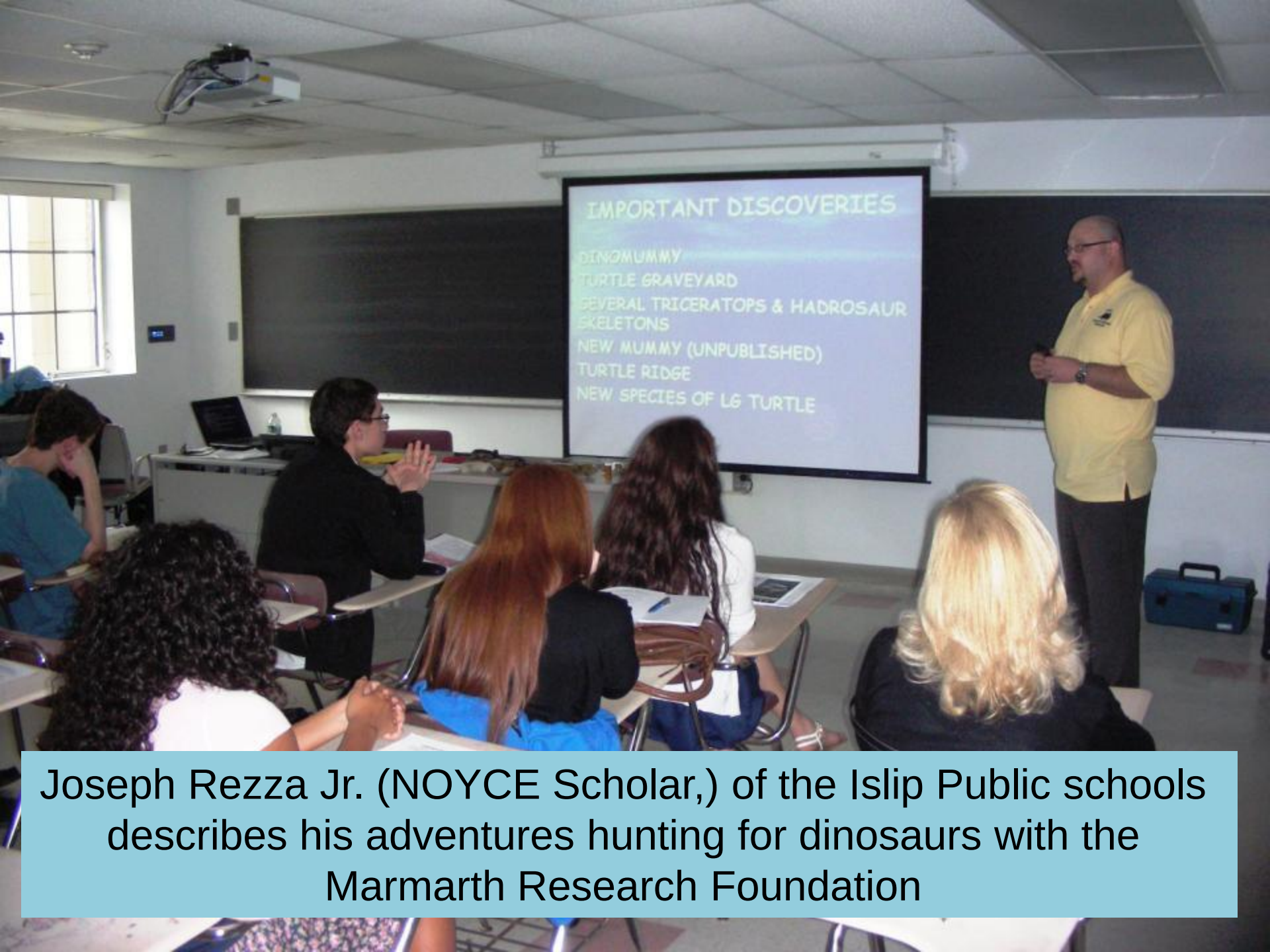
David Stolarz of the Earth and Environmental Progam
at the CUNY Graduate Center and a NYSMEA Board member
discusses “Earning Higher Grades using Informative Maps”

Joanne DiNovis, of Dowling's Chemistry Department explores the use of spectrophotometers with workshop students



Jane Montague Jackson of the North Shore Land Alliance discusses invasive plants on Long Island

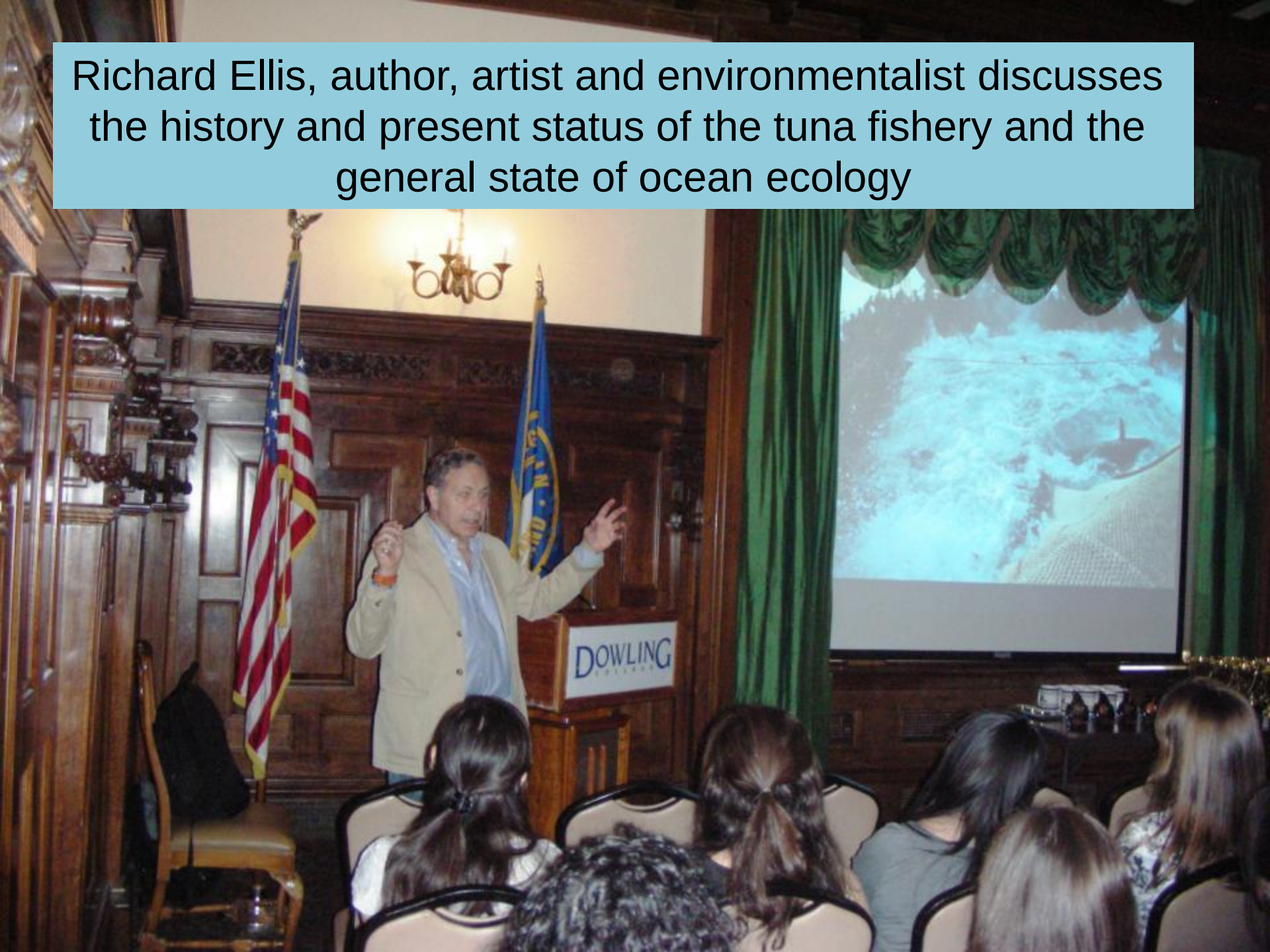
Captain Don Harris of the group, SPLASH discusses environmental stewardship



Joseph Rezza Jr. (NOYCE Scholar,) of the Islip Public schools describes his adventures hunting for dinosaurs with the Marmarth Research Foundation

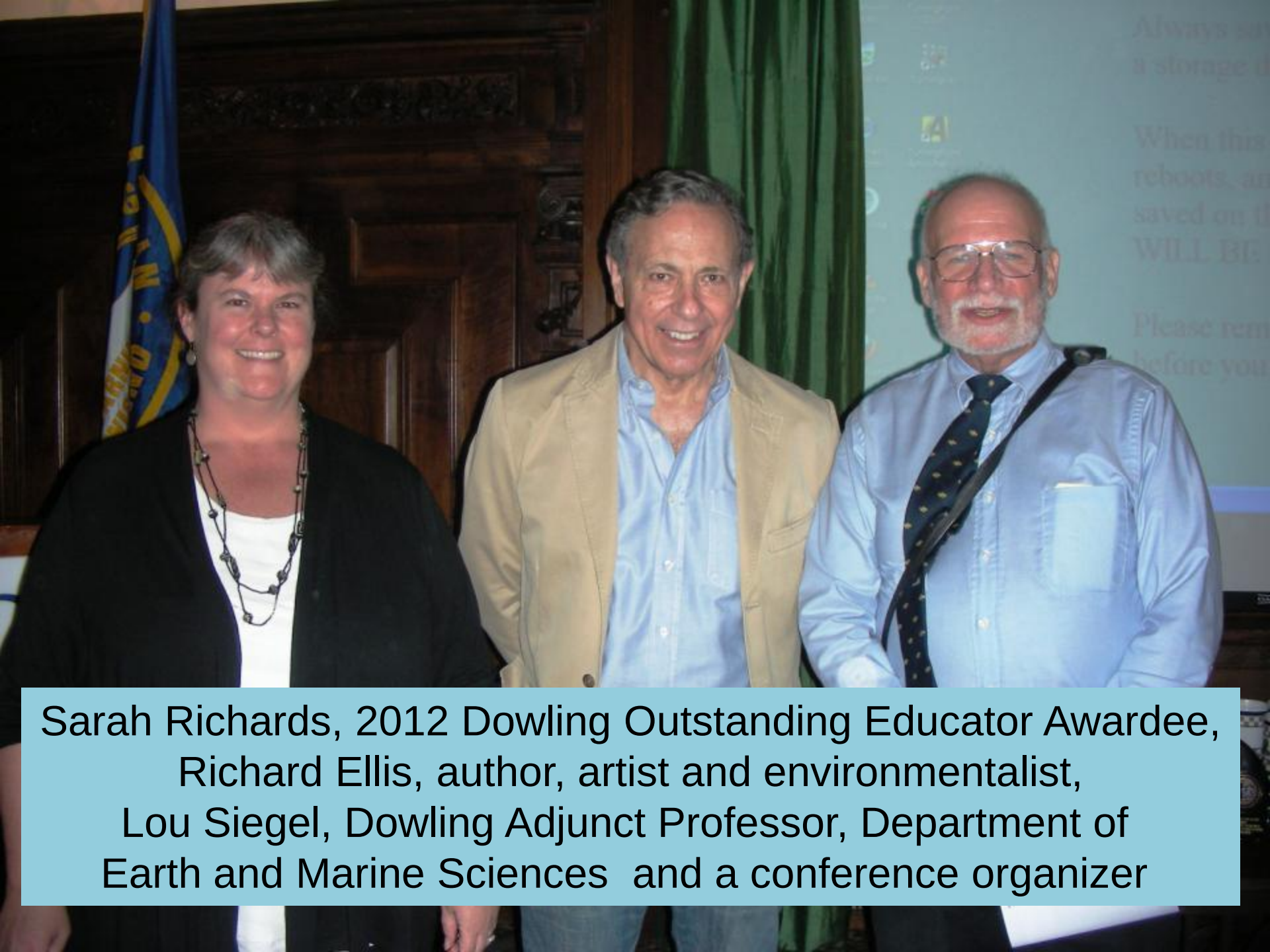
Thomas Vitti of West Islip High School and the Long Island Beekeepers Club explores beehives with students

Minyi Hu of Stony Brook University discusses bone physiology


Richard Ellis, author, artist and environmentalist discusses the history and present status of the tuna fishery and the general state of ocean ecology
DOWLING

Dowling President Brown greeted the group for the awards ceremony

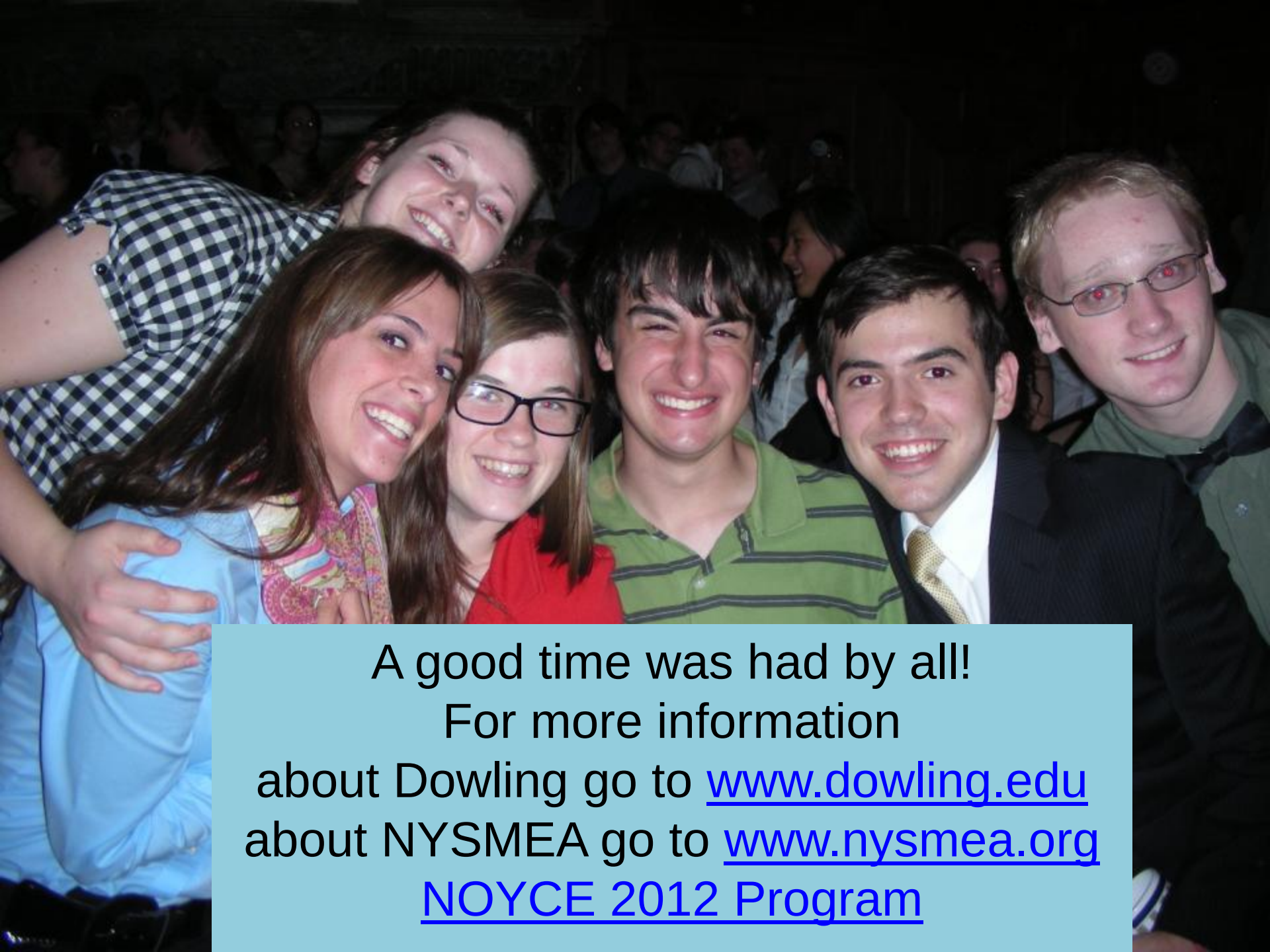
Sarah Richards, Marine Science Teacher at St. Anne's school, Brooklyn, N.Y. and NYSMEA Board member accepting the 2012 Dowling Outstanding Educator Award



Sarah Richards, 2012 Dowling Outstanding Educator Awardee,
Richard Ellis, author, artist and environmentalist,
Lou Siegel, Dowling Adjunct Professor, Department of Earth and Marine Sciences and a conference organizer

Some of the winners accepting their awards

Teacher advisors accepting the school awards



A good time was had by all!
For more information
about Dowling go to www.dowling.edu
about NYSMEA go to www.nysmea.org
NOYCE 2012 Program