BREAKING THE SURFACE 2012 – List of lectures

Lecturer	Institution	Title
Bridget Buxton	University of Rhode Island USA	Seeing the forest and the trees: the case for intensive regional survey
Filipe Vieira de Castro	Texas A&M University USA	Hard and soft sciences: the role of engineering in archaeology
Asgeir Johan Sørensen	Norwegian University of Science and Technology Norway	Dynamic positioning and tracking systems for Remotely Operated Vehicles
Vincent Rigaud	Institut français de recherchepour l'exploitation de la mer (IFREMER) France	From Manned Systems to AUVs, Gliders and a New HROV at Ifremer: Reliability vs Autonomy
Rod Mather	University of Rhode Island USA	Geophysical Survey and Underwater Robotics for Archaeological Work on the Edge of the Continental Shelf, off Virginia, USA
David Scaradozzi	Universita Politechnica delle Marche Italy	Optical Measurement of Underwater Objects
Stewart Schultz	University of Zadar Croatia	Using R Language to Analyze Videographic Data on Benthic Biological Community Coverage
Armagan Elibol	Korea Advanced Institute of Science and Technology (KAIST) Korea	Underwater Image Mosaicing
George Papatheodorou	University of Patras Greece	TargAn
David Lane	Heriot-Watt University Ocean Systems Laboratory Scotland, UK	Persistent Autonomy - AI or Biomimesis?
Stefan Williams	Australian Centre for Field Robotics Australia	High-resolution benthic survey using Autonomous Underwater Vehicles
Mae Seto	Dalhousie University Canada	Impact of Limited Inter-Vehicle Communications on Cooperative Underwater Localization and Mapping
Euan Harvey	University of Western Australia Australia	Stereo-video methods for monitoring and management of underwater resources: advantages, disadvantages, and future prospects including robotics applications
Thmoas Glotzbach	Ilmenau University of Technology Germany	The EU MORPH Project: Building a Supra Vehicle out of single nodes for demanding marine scientific tasks. Challenges in Control and Navigation
Gregory Dudek	McGill University Canada	Automated video summarization and the detection of notable events
Tomas Lundälv	University of Gothenburg, The Sven Lovén Centre for Marine Sciences Sweden	ROVs as tools in biological oceanography
Aamir Qaiyumi	Naval Sea Systems Command USA	Autonomy and Confined Area Search Using Unmanned Underwater Vehicles
Timmy Gambin	University of Malta Malta	Using Sonar Wizmap to analyze, map and manage submerged heritage