

MagellanPlus Workshop

Navigating the IODP Proposal System

A 3 day Workshop for PhD and Early Career Researchers

24th-26th September 2018

National Oceanography Centre Southampton
University of Southampton

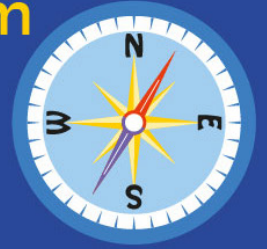


photo:IODP JRSO

Convener and Host: Professor Damon A.H. Teagle

Co-Conveners: Prof Wolfgang Bach (MARUM - Bremen), Dr Rebecca Bell (Imperial College),
Dr Rosalind Coggon (Southampton), Dr Benoit Ildefonse (CRNS Montpellier), Prof Lisa McNeill
(Southampton), Prof Heiko Pälike (MARUM - Bremen), Prof Paul Wilson (Southampton).

ECORD/ICDP Magellan Plus Workshop Series

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WORKSHOP REPORT

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Co-Conveners: Prof Wolfgang Bach (MARUM, Germany)
Dr Rebecca Bell (Imperial College London, UK)
Dr Rosalind Coggon (Southampton, UK)
Dr Benoit Ildefonse (Montpellier, France)
Prof Lisa McNeill (Southampton, UK)
Prof Heiko Palike (MARUM, Germany)
Prof Paul Wilson (Southampton, UK)

Summary:

2018 marked 50 years since Deep Sea Drilling Project (DSDP) Leg 1 sailed from Orange, Texas to Hoboken, New Jersey and drilled 7 sites in the Gulf of Mexico and Atlantic Ocean – initiating 5 decades of international co-operation in scientific ocean drilling – arguably, the most successful, enduring international science collaboration. To celebrate this anniversary and to equip the next generation of European scientific ocean drilling leaders, we held a 3 day workshop (24th-26th September 2018, University of Southampton) to introduce early career and PhD researchers to the opportunities, capabilities and processes of the International Ocean Discovery Program (IODP), and the ways to get involved.

Scientific ocean drilling offers scientists unique access to drillships and bespoke platforms, each with un-matched scientific capabilities. Participation in ocean drilling is a career-building opportunity, with the scientific immersion integral to IODP expeditions leading to enduring long-term research relationships. However, the system can appear complex and distant. Through mentoring and team preparation of drilling proposals, this workshop aimed to dispel the complexities and mysteries of ocean drilling, and introduce early career researchers (ECRs) to the opportunities to participate. The workshop was attended by 39 ECRs from 21 institutes. The workshop comprised a series of informative introductory lectures, by some of Europe's most experienced ocean drilling scientists, interspersed with group writing exercises. The early career delegates worked together in teams to develop hypothetical drilling proposals, which were presented to a Science Evaluation Panel for feedback with the eventual selection of a winning team. All delegates also had the opportunity to present their science as posters and short "3 minute thesis"-style introductory pitches.

The lecture series included presentations on topical science challenges of ocean drilling, the current science plan, the structure of the International Ocean Discovery Program (including ECORD, ESO, ESSAC, JRSO, Chikyu, Facilities Boards), the science evaluation process, different drilling platforms, approaches and technologies, wireline logging, observatory installations, site-survey requirements, environment and pollution considerations, sampling, curation and data protocols, and amphibious IODP-ICDP

proposals. These technical lectures were punctuated by high-level state of the art science lectures highlighting recent achievements in scientific ocean drilling. In addition to the workshop proponents, Prof Keir Becker (U. Miami), Dr Steve Bohaty, Dr Chuang Xuan (both Southampton), and Dr Erwan Le Ber (Leicester, ESO-EPC) provided lectures and mentoring to the early career teams.

For the team project groups of 6 to 8 early career and PhD researchers worked in collaboration with experienced science mentors to formulate a hypothetical drilling proposal. These were then presented to the wider group and evaluated by an expert panel. This exercise followed an iterative approach, where initial ideas were pitched at an early 'Pre-proposal' stage for feedback and guidance, with sufficient time for the teams to refine their ideas for the main 'Full proposal' presentation.

The course leaders were impressed with how well the early career researchers engaged with the group exercise to produce six compelling 'full' drilling proposals. We hope that following the workshop they not only have a much better understanding of IODP opportunities and how to produce successful drilling proposals, but they will also continue to benefit from the peer-networks and connections with the course mentors established during the workshop.

The location and timing of this workshop were selected to encourage and facilitate participants' attendance of the UK-IODP "Celebrating 50 years of Scientific Ocean Drilling" meeting at the Natural History Museum, London (27th & 28th September), immediately following the workshop. This meeting included a stellar cast of international leaders from the ocean drilling community (e.g., Raymo, Becker, Humphris), as well as further opportunities for early career researchers to present their research.

Contact: Prof Damon Teagle (Damon.Teagle@southampton.ac.uk)



The workshop conveners acknowledge the generous support of the ECORD-ICDP Magellan+ workshop program as well as the NERC UK-IODP science support programme.

ECORD/ICDP Magellan Plus Workshop Series Programme

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WORKSHOP REPORT

1. PARTICIPANTS:

1.1 Course Leaders:

Name:	Organisation:	(initials in schedule)
Prof. Damon Teagle	Southampton	DT
Prof. Lisa McNeill	Southampton	LM
Prof. Paul Wilson	Southampton	PW
Dr Rosalind Coggon	Southampton	RC
Dr Steve Bohaty	Southampton	SB
Dr Chuang Xuan	Southampton	XC
Dr Rebecca Bell	Imperial	RB
Dr Erwan Le Ber	Leicester	EIB
Prof. Benoit Ildefonse	Montpellier	BI
Prof. Wolfgang Bach	Marum, Bremen	WB
Prof. Heiko Palike	Marum, Bremen	HP
Prof. Keir Becker	Miami, USA	KB

Group Mentors:

Group 1: Lisa McNeill

Group 2: Wolfgang Bach

Group 3: Paul Wilson

Group 4: Rosalind Coggon

Group 5: Heiko Palike

Group 6: Benoit Ildefonse

'Rotating' IODP Specialists:

Site Survey: Rebecca Bell/Lisa McNeill

Wireline logging: Erwan Le Ber

Drilling platforms: Damon Teagle/Benoit Ildefonse/Lisa McNeill

Physical Properties: Benoit Ildefonse

Paleomagnetism: Chuang Xuan

Geochemistry: Damon Teagle/Rosalind Coggon/Paul Wilson/Wolfgang Bach

Environment & Pollution: Damon Teagle/Benoit Ildefonse/Lisa McNeill

Microbiology: Wolfgang Bach