

## Schmidt Ocean Institute SCUFN-30 – Genoa, Italy

STREET FOR THE STREET

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Leighton Rolley – Lead Technician leighton.r@soi-team.org

https://schmidtocean.org/



- Lead Marine Technician
- Joined Schmidt Ocean Institute (December 2011)
- Prior to joining SOI I worked for the Natural Environment Research Council (NERC) at the National Oceanography Centre, UK – Team leader RRS James Cook
- Apprentice at Southampton Oceanography Centre
- Computer Science Technical aspects of cruise support
- Participated in over 100 expeditions 6 years at sea



# About Schmidt Ocean Institute





- 2009 Founders Eric and Wendy Schmidt establish Schmidt Ocean Institute as a 501 (c)(3) private non-profit foundation.
- Lone Ranger
- established to advance oceanographic research, discovery, and knowledge, and catalyze sharing of information about the oceans.
- 2009-2012 Schmidt Ocean Institute purchases a German fisheries protection vessel, and undergoes an extensive refit to convert the ship to a state-of-the-art oceanographic research vessel, now known as *Falkor*.
- 2012 Falkor undergoes extensive verification cruises in Germany, Norway and the Atlantic
- 2013 Falkor's first year of science



- Vision: The world's oceans understood through technological advancement, intelligent observation, and open sharing of information.
- Mission: We combine advanced science with stateof-the-art technology
  - to achieve lasting results in ocean research,
  - •to catalyse open sharing of the information,
  - and to communicate this knowledge to audiences around the world





- Single page expression of interest/proposal overview
- Full proposal request
- Science proposals are peer reviewed by a Science Advisory Committee
- Successful proposals will be funded by the Schmidt Ocean Institute



## About RV Falkor



Length: 82.9m Beam: 13.00 Meters Draft: 5.8m Endurance: 36 Days Max Speed: 17kts 20 Crew/21 Scientists













EM302 – (400-9000m) EM710 – (5m – 1800m) ADCP 75 & 300kHz Knudsen 12kHz EK60 – 18,38,70,120,200,710 EA600 – 12, 38, 200 Hydrophones Cameras

- UNH Checks
- Noise Level Checks











#### Schmidt Ocean Institute

### IHO Submissions

First Submission May 2014 – Loss of Nereus - TGT
Crean Deep, Tāwhatiwhati Guyot, Thompson-Eclipse Knoll – not the best submission

"give it go"

Since 2014 we have made 14 naming submissions
Continually improving our submissions as we go
Highlighting the unexplored ocean
Student involvement in the naming process

Great exercise for students....





Student Participation & Training



Berths of opportunity for students with limited sailing and research
experience – advertised on our website & social media
Encouraging the next generation of ocean scientists

•B6 as an aid for both students and technical staff
•survey planning, execution, data cleaning, contouring, profiles, and presentation
•Real world results – visible achievement and legacy of the science
•Promoting exploration and community interest in the oceans





Engagement & Legacy



#### •Communications, Education, and Outreach Program

"The purpose of this ship, as she leaves on her various missions, is to communicate about the science of the oceans to people so that they can care about it. We can't take care of something that we don't understand and we can't care if we don't know." – Wendy Schmidt, March 6, 2012.



Engagement & Legacy





### Engagement & Legacy













## Questions?

