

特定非営利活動法人 海洋音響学会
2012 年度第 2 回講演会のご案内

講演者 Dr Rudy Kloser

(CSIRO Marine Laboratories)

演題 “Acoustical insights into deep-water habitats, fisheries and ecosystems”

(深海の生息環境・漁場・生態系への音響的な知見)

日時 2012 年 10 月 19 日 (金) 15:00 ~ 17:00

会場 : 東京海洋大学 7号館 多目的交流研修室 (東京都港区港南 4-5-7)

交通機関 : JR 線・京浜急行線 品川駅港南口(東口)から徒歩約 10 分

東京モノレール天王洲アイル駅から「ふれあい橋」を渡り正門まで約 15 分

りんかい線天王洲アイル駅から「ふれあい橋」を渡り正門まで約 20 分

会場ならびに交通機関の詳細は以下の URL をご覧下さい。

<https://www.kaiyodai.ac.jp/info/37/38.html>

<https://www.kaiyodai.ac.jp/info/access/22417.html>

参加費 : 名誉会員・通常会員 無料, 賛助会員・学生 1,000 円, 一般 2,000 円

担当 : 川崎良道 (沖電気工業)

お問合せは, 川崎 (kawasaki637@oki.com, 電話 055-926-6345) まで

懇親会 : なお講演会終了後, 会場周辺にて懇親会を開催いたします。(会費 1,000 円)

懇親会の会場準備の都合上、ご参加いただける場合は、10 月 12 日(金)までに、担当へご連絡ください。

要旨

Acoustic tools and methods will be presented that are providing valuable insights into understanding the structure and function of deep-water habitats, fisheries and ecosystems and contributing to their sustainable management. Seabed habitats are mapped with a multi-beam echosounder and the backscatter data processed to infer the substrate. The backscatter processing method minimises errors due to instrument artefacts, absorption and area corrections whilst maximising the spatial information. To monitor deep-water fisheries a new multi-frequency acoustic and stereo optical system (AOS) mounted on a trawl headline has been developed. The multi-frequency acoustic platform is used to reduce species identification uncertainty providing precise biomass estimates. A major advance has been the net attached in situ target strength of deep-water species such as orange roughy that are visually verified. Deepwater fisheries are part of a larger ecosystem that spans ocean basins, characterised in part by the deep-scattering layer. A basin scale ship of opportunity program incorporating fishing vessels has been developed and

highlights the spatial and temporal scales of these ecosystems <http://imos.org.au/basoop.html>. Detailed fine scale multi-frequency, optical and net sampling measurements to infer the size and density of gas-bladdered organisms in the deep scattering layer to 1000 m depth will also be discussed.