



Wednesday 28

18:00 - 21:30 Registration desk open at the Symposium Center, Knossos Royal Village Hotel.

Thursday 29

08:30 - 09:30 Registration desk open at the Symposium Center, Knossos Royal Village Hotel.

09:30 - 10:00 **A. Eleftheriou. Marine Biology in Minoan Crete. Welcoming address.**

Session: Deep Sea Biota - Fish Behavior, Chairperson: T. Wolff

10:00 - 10:20 **Bagley P.M.** Tracking of abyssal benthic scavenging fishes using ingestible pingers and transponders.

10:20 - 10:40 **Priede I.G.** Does the abyssal benthic scavenging grenadier fish *Nematonurus (Coryphaenoides) armatus* respond to seasonal changes in the North Atlantic ?

10:40 - 11:00 **Smith A.** Activity patterns of abyssal scavengers observed at baits deployed on the deep ocean floor.

Coffee break

Session: Deep Sea Biota - Macrofauna, Chairperson: R. George

11:30 - 11:50 **Thurston M.H. & B. Bett.** Hatchling size and aspects of biology in deep-sea amphipod genus *Eurythenes* (Crustacea: Amphipoda: Lysianassoidea).

11:50 - 12:10 **Gaspard D. & V. Barbin.** Growth stages highlighted by cathodoluminescence in recent brachiopods.

12:10 - 12:30 **Lawson G.S, M. Sheder, P.A. Tyler, M. Thurston & J.D. Gage.** Reproductive and feeding biology of a deep-sea ampeliscid.

12:30 - 12:50 **Poore G.C.B. & B.F. Cohen.** The biogeography of the Gnathiidae (Crustacea: Isopoda) on the coast, shelf and slope of Eastern Australia.

Lunch

Session: Deep Sea Biota - Megafauna, Chairperson : A. L. Rice

14:00 - 14:10 **Bett B., B.E. Narayanaswamy. A.L. Rice & M.H. Thurston.** A quantitative photographic survey of "spoke-burrow"-type lebensspuren on the Cape Verde Abyssal Plain. Short Communication.

- 14:10 - 14:30 **Thiel H., G. Schriever & H. Bluhm.** Observations on baited and unbaited time-lapse cameras.
- 14:30 - 14:50 **Thurston H.M., Bett B. & A.L. Rice.** Scavenging abyssal megafauna in the eastern North Atlantic Ocean.
- 14:50 - 15:10 **Aller J.Y.** Spatial and temporal distribution of benthic communities on the Nova Scotia Rise as indicators of physical processes.
- 15:10 - 15:30 **George R.** Pressure induced metabolic adaptive strategies in deep sea megafauna.
- 15:30 - 15:40 **Moore H.M. & D. Roberts.** Gut structure and feeding strategies in deposit feeding abyssal holothurians. *Short Communication*
- 15:40 - 15:50 **Manship B.A.D. & D. Roberts.** Bacterial profiles along the digestive tracts of deposit feeding abyssal holothurians. *Short Communication.*

Coffee break

Session: Deep Sea Biota - Megafauna, Chairperson : H. Thiel

- 16:20 - 16:40 **Witte U.** Reproductive pattern, particle uptake and biodeposition rate of deep-sea sponges from the deep Norwegian and Greenland Sea.
- 16:40 - 17:00 **Brandt A.** Composition, abundance, diversity and community patterns of Peracarida (Crustacea, Malacostraca) in two areas of the North Atlantic.
- 17:00 - 17:20 **Bronsdon S.K., P.A. Tyler, A.L. Rice & J.D. Gage.** Reproductive strategies of two deep-sea epizoic anemones from the NE Atlantic.
- 17:20 - 17:40 **Young. C.M., S. George & S. Ekaratne.** Larval growth, development and survival of the bathyal echinoid *Aspidodiadema jacobyi* under different physical and dietary regimes.
- 17:40 - 18:00 **Hawkins L.E. & S. Hutchinson.** Coelomic fluid composition of deep sea holothurians: evidence of bouyancy ?
- 19:00 - 20:00 **Welcoming reception**

Friday 30

Session: Benthic - pelagic coupling, Chairperson: I. Priede

- 09:00 - 09:20 **Christiansen B.** Standing stock and carbon demand on the near-bottom fauna: a comparison of two oceanic locations in the NE Atlantic.
- 09:20 - 09:40 **Smith C.R., D.J. Hoover, S. P. Garner & S.E. Doan.** Benthic-pelagic coupling in the abyssal ocean: benthic community structure and bioturbation along the equatorial Pacific carbon-flux gradient.
- 09:40 - 10:00 **Young C.M., P.A. Tyler & R.H. Emson.** Do seasonal pulses of macrophyte detritus entrain reproductive rhythms in tropical deep-sea ?
- 10:00 - 10:20 **Koslow J.A.** Trophodynamic models of mid-slope fish community off Southeastern Australia: orange roughy energetics and fluxes to deep water via sedimentation, vertical migration and lateral advection.

Coffee break

Session: Hydrothermal vents, cold seeps & special environments.
Chairperson: D. Gaspard

- 10:50 - 11:10 **Chevaldonné P., A. Godfroy, J. Guezennec, F. Marec & Y. Fouquet.** Microecology of a hydrothermal vent chimney at 9°50'N on the East Pacific Rise.
- 11:10 - 11:30 **Kuznetsov A.P., V. Maslennikov & V.V. Zaikov.** The near-hydrothermal fauna of the Silurian paleocean in the South Ural.
- 11:30 - 11:50 **Luth U., A. Gebruk., M. Gulin, C. Luth & N. Pimenov.** Occurrence of carbonate cemented rocks and bacterial mats along the oxic-anoxic gradient in a methane seep area off the Crimean coast in the Black Sea.
- 11:50 - 12:10 **Godfroy A. & F. Marec.** Rapid identification of new Archaea from deep-sea vents of the Mid Atlantic ridge.

Lunch

Session: Hydrothermal vents, cold seeps & special environments.
Chairperson : J. Barry

- 14:00 - 14:20 **Zal F., Jollivet D., Chevaldonné P. & D. Desbruyères.** Life-history and population structure of *Paralvinella grasslei*, a polychaete annelid from deep-sea hydrothermal vents.
- 14:20 - 14:40 **Galkin S.V.** Investigations of vent communities in Bismark Sea.
- 14:40 - 15:00 **Shank T.M., D.J. Fornari, M.E. R. Haymon, M. Lilley, K. Von Damm & R. A. Lutz.** Rapid development of biological community structure and associated geologic features at hydrothermal vents at 9°-10° North, East Pacific Rise.
- 15:00 - 15:20 **Olu K., A. Duperret, M. Sibuet, J.-P. Foucher. A. Fiala-Medioni & J. Bourgois.** Ecology of cold seep communities on the northern Peruvian active margin.

Coffee break

Session: Hydrothermal vents, cold seeps & special environments.
Chairperson : C. R. Smith

- 15:50 - 16:10 **Sudarikov S.M. & S.V. Galkin.** Hydrothermal ecosystems and biogeochemistry of the Mid-Atlantic Ridge.
- 16:10 - 16:30 **Gebruk A.** Unusually strong input of methane carbon into biota of deep-water heat affected community in Froliha Bay, Lake Baikal.
- 16:30 - 16:50 **Barry J.P., R.E. Kochevar, C.H. Baxter & P.J. Whaling.** Distribution and growth rates of Vesicomid clams in relation to pore water chemistry of cold seeps in Monterey Bay, California, USA.
- 16:50 - 17:10 **Fiala-Medioni A., V. Pranal & J.-C. Colomines.** Deep sea symbiotic models chemosynthetic based: comparison of bivalve molluscs from hydrothermal vents and cold seeps.
- 17:10 - 17:30 **Youngbluth M.J., B.H. Robison & K.R. Reisenbichler.** Predation by large physonect siphonophores in an hypoxic midwater environment.
- 17:30 - 17:50 **Hartley J.** Drill cuttings piles - anthropogenic whale falls ?

Saturday 1

Session: Microbiology, biochemistry & molecular biology, Chairperson: K. Lochte

- 09:00 - 09:20 **Boetius A. & K. Lochte.** Enzymatic degradation potentials of microbial assemblages in slope and deep-sea sediments.

- 09:20 - 09:40 **Ferrero T.J., D.K. Boardman, M. Ripley, D. Eardley, G.A. Wolff, S.J. Rowland, J. Patching, Lamshead P.J.D., N.J. Debenham & A. Beckett.** Preliminary results and assessment of a sediment homogenisation technique enabling direct measurement and comparison of nematode populations with sediment biogeochemistry and bacteriology.
- 09:40 - 10:00 **Black M.B., W.R. Hoeh, R.A. Lutz & R.C. Vrijenhoek.** Phylogenetic relationships of tube worms (Vestimentifera and Pogonophora) inferred from mitochondrial COI sequence.
- 10:00 - 10:20 **France S.C. & T.D. Kocher.** Mitochondrial 16s rRNA sequence variation in populations of the scavenging deep-sea amphipod *Eurythenes gryllus* (Crustacea, Lysianassoidea) from the North Atlantic and North Pacific Oceans.

Coffee break

Session: Microbiology, biochemistry & molecular biology, Chairperson: T. Ferrero

- 10:50 - 11:10 **Lochte K.** Microbiological investigations in deep-sea sediments of the Weddell Sea, Antarctica.
- 11:10 - 11:20 **Poremba K.** Impact of pressure on bacterial activity in water columns situated at the European continental margin. *Short Communication.*
- 11:20 - 11:40 **Staton J. & C. M. Young.** Generic divergence between two populations at the bathyal echinoid *Phormosoma placenta*
- 11:40 - 12:40 **Poster Session**
- 12:40 - 13:00 **Shank T.** Video Presentation
- 13:00 - 13:20 **Youngbluth M.** Video Presentation

Lunch

- 17:00 - 18:00 **Planning Meeting for future Symposium on " The History and Concepts of Deep Sea Oceanography".**

Sunday 2 **Excursion.** Site seeing at Gortys & Faestos, swim/walk at Matala, late lunch (15:30) at Zaros village, return to Hersonissos at approx. 19:00

Monday 3

Session: Meiofauna, Chairperson: G.D.F. Wilson

- 09:00 - 09:20 **Vanreusel A., M. Vincx, B. Bett & A.L. Rice.** Nematode biomass spectra of two abyssal sites in the NE Atlantic with a presumed contrasting food supply.
- 09:20 - 09:40 **Soltwedel T.** The size structure of deep-sea metazoan meiobenthos in the NE Atlantic: nematode size spectra in relation to environmental variables.
- 09:40 - 10:00 **Lamshead P.J.D., G. Boucher, J.H. Tietjen & P. Jensen.** Do latitudinal gradients of diversity exist for the meiofauna ?

Coffee break

Session: Meiofauna, Chairperson: P.J.D. Lamshead

- 10:30 - 10:50 **Bussau C., G. Schriver & H. Thiel.** Evaluation of abyssal metazoan meiofauna from a manganese nodule area of the eastern South Pacific.

- 10:50 - 11:00 **Luth C. & S. Scheibe.** A comparison between two different subsampling strategies to assess the microbenthic small scale variability. *Short Communication.*
- 11:00 - 11:20 **Svavarsson J. & B. Daviosdottir.** Pattern of foraminifer (Protozoa) epizoites on the Arctic deep water isopod *Arcturus baffini* (Crustacea, Isopoda, Valvifera).
- 11:20 - 11:40 **Gross O. & C. Hemleben.** Ecology of deep-sea Foraminiferans maintained in laboratory cultures.
- 11:40 - 12:00 **Photographic session** (KRV amphitheater)

Lunch

Session: Eastern Mediterranean, Chairperson: A. Eleftheriou

- 14:00 - 14:20 **Türkay M.** The Eastern Mediterranean deep sea benthos. Studies in a peculiar environment.
- 14:20 - 14:40 **Scheibe S., A. Boetius, A. Tselepides & H. Thiel.** Labile organic matter and microbial heterotrophic activities in deep sea sediments of the Eastern Mediterranean Sea.
- 14:40 - 15:00 **Danovaro R. & A. Tselepides.** Distribution of deep-sea meiobenthos in the Levantine Sea (Eastern Mediterranean).
- 15:00 - 15:20 **Fiege D., M.N. Ben-Eliahu & K.N. Papadopoulou-Smith.** Polychaeta of the Central and Eastern Mediterranean deep sea.
- 15:20 - 15:40 **Galil B.** The deep sea Levantine fauna - new records.

Coffee break

Session: Eastern Mediterranean, Chairperson : M. Turkey

- 16:10 - 16:30 **Galil B. & H. Zibrowius.** Keyhole to the past- Preliminary benthic samples from Eratosthenes Seamount (Eastern Mediterranean).
- 16:30 - 16:50 **Tselepides A.** Macrobenthic communities of the continental slope of the Aegean Sea.
- 16:50 - 17:10 **Della Croce N. & G. Albertelli.** Experimental traps and deep-sea bottom fauna.
- 17:10 - 17:30 **Siokou-Frangou I., E.D. Christou & M.A. Pancucci-Papadopoulou.** Deep-sea mesozooplankton in the Eastern Mediterranean.
- 17:30 - 17:50 **Zibrowius H.** Mediterranean deep benthos (Recent and Pleistocene) photographed by CYANA during geological cruises.
- 17:50 - 18:10 **Boury-Esnault N., J.-G. Harmelin, J.-C. Romano, E. Vacelet, J. Vacelet & H. Zibrowius.** A marine cave as a mesocosm of the deep Mediterranean.
- 20:30 - ! **Symposium Dinner** (Greek Night at the KRV Hotel)

Tuesday 4

Session: Distribution/Diversity/Community structure, Chairperson: M. Rex

- 09:00 - 09:10 **Schein E., M. Roux & N. Ameziane.** Adaptation to the deep sea and diversity. I: The example of Bivalves. *Short Communication*
- 09:10 - 09:20 **Roux M., N. Ameziane & E. Schein.** Adaptation to the deep sea and diversity. II: The example of stalked Crinoids. *Short Communication*
- 09:20 - 09:40 **Wilson G.D.F.** How many species of abyssal invertebrates are there?.

09:40 - 10:00 **Snelgrove P.V.R., J.F. Grassle & R.F. Petrecca.** Aging food patches as a factor contributing to high deep-sea macrofaunal diversity.

10:00 - 10:20 **v. Juterzenka K.** Ecological significance of a deep-sea brittle star in the northern North Atlantic.

Coffee break

Session: Distribution/Diversity/Community structure, Chairperson: D. Thistle

10:50 - 11:10 **Rex M.A. & C.T. Stuart.** Latitudinal gradients of species richness in the deep-sea benthos.

11:10 - 11:30 **Brattegard T. & S.F. Jellestad.** Distribution, growth and prey selection in the Northeast Atlantic deep-water starfish *Psilaster andromeda* (Asteroidea).

11:30 - 11:50 **Williams A. & J.A. Koslow.** The demersal fish fauna on the continental slope off Western Australia: patterns of abundance, species richness, community structure and trophodynamics.

Lunch

Session: Large projects, Chairperson: J.-O. Strömberg

14:00 - 14:20 **Fukushima T.** Introduction of Japan-Deep Sea Impact Experiment (JET)

14:20 - 14:40 **Galeron J., M.-L. Mahaut, M. Sibuet, A. Dinet, N. Cosson, A. Khripounoff & P. Crassous.** EUMELI (JGOFS-France) programme in the tropical north-east Atlantic. Community structure and carbon transfer through the benthic food web.

14:40 - 15:00 **Bluhm H.** Megabenthic recolonization during the DISCOL experiment.

15:00 - 15:20 **Borowski C.** Responses to an environmental impact in the deep-sea: benthic macrofauna in the DISCOL experiment area (DEA) of the SE Pacific.

15:20 - 15:40 **Thistle D. & G.D.F. Wilson.** Is the HEBBLE isopod fauna hydrodynamically modified: a second test.

Coffee break

Session: Large projects, Chairperson : T. Fukushima

16:10 - 16:30 **Grassle J.F., R.F. Petrecca & P.R.V. Snelgrove.** Long-term studies of benthic macrofaunal communities at the Long-term Ecosystem Observatory Site (LEO-2500) on the continental slope and rise off New Jersey, USA and the Effects of sewage sludge disposal.

16:30 - 16:50 **Trueblood D.D. & E. Ozturgut.** A simulation of deep seabed mining environment disturbance: the Benthic Impact Experiment.

16:50 - 17:10 **Rice A.L., M.H. Thurston & B. Bett.** The IOSDL DEEPSEAS Programme; introduction and dramatic time-lapse photographic results.

17:10 - 17:40 **Next DSBS to be held at ?**

17:40 - 18:00 **Closing address**

