

INA15 PROGRAM

MARCH 7 (SATURDAY)

6:30 am – 6:30 pm Pre-Conference Fieldtrip A (Bohol Countryside Tour)

MARCH 8 (SUNDAY)

7:00 am – 1:00 pm Pre-Conference Fieldtrip B (Balicasag Island Snorkeling)

2:00 pm – 6:00 pm Early Registration

6:30 pm – 8:30 pm Ice Breaker Reception/Cocktails (Sponsored by Hon. Edgar M. Chatto, Governor of Bohol Province)

MARCH 9 (MONDAY)

7:00 am – 9:00 am Registration Open

9:00 am – 9:30 am Opening Ceremony

Welcome Address: Hon. Edgar M. Chatto
Governor of Bohol Province

9:30 am – 10:00 am Morning Coffee Break
INA Group Photo Session 1

Session I: **Micropaleontology and the IODP**

Chair: Jose-Abel Flores

- 10:00 am *Kulhanek, D.K.*
Micropaleontology and the International Ocean Discovery Program: a primer
- 10:20 am *Young, J.R., Bown, P.R. and Lazarus, D.*
Interrogating the Neptune database for nannofossil occurrence data - species records and diversity estimates

Session II: **Taxonomy and Evolution**

Chairs: Jeremy Young and Richard Howe

- 10:40 am *Mattioli, E.*
Environmentally driven evolutionary patterns in the size of the calcareous nannofossil *Schizosphaerella* through the Jurassic
- 11:00 am *Newsam, C., Bown, P. and Dunkley Jones, T.*
Calcareous nannoplankton evolution across the Eocene-Oligocene transition
- 11:20 am *Šupraha, L., Gerecht, A., Probert, I. and Henderiks, J.*
Strain-specific ecophysiological traits define the response to phosphorus limitation in *Helicosphaera carteri*
- 11:40 am *Hagino, K., Onuma, R., Takano, Y., Young, J., Tomioka, N. and Horiguchi, T.*
Possibility of extracellular calcification of *Braarudosphaera bigelowii* deduced from cell-surface structure and elemental compositions of pentoliths by analytical electron microscopy
- 12:00 pm *Jafar, S.A.*
The incredible *Braarudosphaera bigelowii*, a coccolithophore that displays exceptional mathematical traits

12:20 pm – 1:40 pm LUNCH (Sponsored by Dr. Michael L. Tan, Chancellor of the University of the Philippines – Diliman Campus)

Session III: Advances in Nannofossil Biostratigraphy (Joint Industrial-Academic Session)

Chairs: Jackie Lees and David Watkins

1:40 pm Hadavi, F., Moheghy, M.A. and Ghadamagahi, M.
Nannostratigraphy of the Dalichai Formation in the Naviya section of Kopet Dag Mountain Range in Iran

2:00 pm Kadar, A.P., De Keyser, T., Neog, N. and Karam, K.A.
Middle to Upper Jurassic stratigraphy of Kuwait: calcareous nannofossils and maximum flooding surfaces

2:20 pm – 3:00 pm Keynote Talk by Claudia Agnini
A new biostratigraphic and biochronologic framework for Paleogene calcareous nannofossils
(Agnini, C., Fornaciari, E., Raffi, I., Catanzariti, R., Pälike, H., Backman, J. and Rio, D.)

3:00 pm – 3:40 am Keynote Talk by Isabella Raffi
Why an updated zonation of Neogene calcareous nannofossils?
(Raffi, I., Backman, J., Fornaciari, E., Pälike, H. and Rio, D.)

3:40 pm – 4:00 pm Afternoon Coffee Break

4:00 pm – 5:00 pm POSTER SESSION 1

MARCH 10 (TUESDAY)

Session III: Advances in Nannofossil Biostratigraphy (Joint Industrial-Academic Session) – cont'd

Chairs: Denise Kulhanek and Emma Sheldon

9:00 am Kita, Z.A. and Watkins, D.K.
Nannofossil biostratigraphy of the Late Cretaceous (Coniacian - Campanian) Niobrara Formation (Western Interior Seaway)

9:20 am Brace, B., Saavedra-Pellitero, M., Tada, R., Murray, R.W., Alvarez Zarikian, C.A. and Expedition 346 Science Party
IODP Expedition 346 "Asian Monsoon": calcareous nannofossil biostratigraphic and paleoenvironmental synthesis

9:40 am – 10:30 am Morning Coffee Break/POSTER SESSION 2

Session III: Advances in Nannofossil Biostratigraphy (Joint Industrial-Academic Session) – cont'd

10:30 am – 11:10 am Keynote Talk by Richard Denne
Calcareous nannofossil biostratigraphy in unconventional resource plays

11:10 am Thi Tham, N., Van Su, N. and Nio, D.
Early Miocene through Pleistocene calcareous nannofossils and the results of cyclostratigraphic analyses of gamma ray logs – StratPacs from the Nam Con Son Basin

11:30 pm – 1:00 pm LUNCH

Session IV: Recent Nannoplankton/Coccolithophores: Biogeography and Ecology
Chairs: Karl-Heinz Baumann and Ric Jordan

1:00 pm Cortés, M.Y., Rochin, H., Sidón Ceceña, K., Urcádiz Cázarez, F.J. and Bollmann, J.
Coccolithophore biocoenosis, thanatocoenosis, and taphocoenosis in a marginal basin in the Gulf of California

1:20 pm Hernández-Becerril, D.U., Ramírez-Robles, I., Salazar-Paredes, J., Lavín, M.F. and Godínez, V.M.
Abundance and distribution of coccolithophores and Parmales (*Tetraparmainsecta*) in the Gulf of California during the summer (July-August, 2011), and their relationship to oceanographic conditions

1:40 pm Rochín, H., Cortés, M.Y., Bollmann, J., Urcádiz-Cázares, J., Silverberg, N. and Aguirre-Bahena, F.
Calcite export by sinking of coccoliths in the southern Gulf of California - *Gephyrocapsa oceanica* is the primary contributing species

2:00 pm Álvarez, M.C., Temazatzi, A., Pérez-Cruz, L., Olivos-Ortiz, A., Quijano-Scheggia, S., Díaz-Flores, M.A. and Galicia-Pérez, M.A.
High-resolution assessment of coccolith assemblages during the last 150 years, Carmen Basin, Gulf of California

2:20 pm Villarosa Garcia, M.
Biogeographic patterns of coccolithophore morphologic disparity

2:40 pm Jordan, R.W., Kijima, A., Komuro, C., Tsutsui, H., Abe, K. and Konno, S.
Modern subtropical/tropical coastal coccolithophorid assemblages

3:00 pm Thomsen, H.A.
Baltic Sea coccolithophores – an overview of findings from the last decades

3:20 pm Guerreiro, C., de Stigter, H., Cachão, M., Cros, L., Sá, C., Oliveira, A. and Rodrigues, A.
Coccoliths from recent sediments of the central Portuguese margin: preservation of ecological signature in a dynamic sedimentary setting

3:40 pm – 4:00 pm Afternoon Coffee Break

4:00 pm – 5:00 pm POSTER SESSION 3

MARCH 11 (WEDNESDAY)

Session V: Paleoclimate Studies

Chairs: Claudia Agnini and Jean Self-Trail

- 9:00 am Möller C., Mutterlose, J. and Heimhofer, U.
Calcareous nannofossil response to the Valanginian Weissert event in a Boreal epicontinental sea
- 9:20 am Kulhanek, D.K., Hollis, C.J., Hines, B.R., Littler, K., Strong, C.P., Zachos, J.C. and Villasante-Marcos, V.
A new Paleocene-Eocene thermal maximum record from Deep Sea Drilling Project Site 277 (Campbell Plateau): a window into calcareous nannofossil response in the southern high latitudes
- 9:40 am Self-Trail, J.M., Robinson, M.M. and Wandless, G.A.
Calcareous nannofossil and foraminiferal evidence for a PETM pre-onset excursion, Atlantic Coastal Plain, USA
- 10:00 am Bordiga, M., Henderiks, J., Tori, F., Monechi, S., Fenero, R. and Thomas, E.
Eocene-Oligocene shifts in calcareous nannofossil assemblages at ODP Site 1263 (Walvis Ridge, Atlantic Ocean)
- 10:20 am – 10:40 am Morning Coffee Break

Session V: Paleoclimate Studies – cont'd

Chairs: Jorijntje Henderiks and Mike Styzen

- 10:40 am Sulaiman, N. and Dunkley Jones, T.
The Eocene-Oligocene transition (EOT) boundary at Mossy Grove, Mississippi
- 11:00 am Bartol, M. and Henderiks, J.
Nannofossil assemblage shifts in the aftermath of the Miocene Climatic Optimum – a North Atlantic latitudinal transect
- 11:20 am Saavedra-Pellitero, M. and Baumann, K.-H.
Marine Isotope Stage 11 in the Southern Ocean
- 11:40 am Barbarin, N. and Beaufort, L.
Insolation cycles as a major control on Coral Sea primary production
- 12:00 pm – 1:30 pm LUNCH

1:30 pm – 5:30 pm WORKSHOPS

- A. “Biogeography and Ecology of Extant Coccolithophores: Floristic similarities/differences among Oceans”
Organizers: *Kyoko Hagino, Alicia Kahn, Karl-Heinz Baumann and Jeremy Young*

B. Cenozoic Biostratigraphy: Updates, improvements and new zonations
Organizers: Isabella Raffi and Claudia Agnini

C. Mesozoic Biostratigraphy and Taxonomy
Organizers: Richard Denne, Emanuela Mattioli and Jackie Lees

6:30 pm – 9:30 pm CONFERENCE DINNER
 INA Group Photo Session 2

MARCH 12 (THURSDAY)

Session VI: **Paleoceanography and Paleoenvironment Studies**

Chairs: Emanuela Mattioli and Elisa Malinverno

9:00 am *Faucher, G., Erba, E., Casellato, C.E. and Bottini, C.*
Size variations in selected coccolith species through Mesozoic oceanic anoxic events: implications for paleoceanographic reconstructions

9:20 am *Ferreira, J., Mattioli, E., Cachão, M. and Pittet, B.*
Changes in calcareous nannofossils across the Toarcian and Early Aalenian from the Lusitanian Basin (Portugal)

9:40 am *Giraud, F., Mattioli, E., Lécuyer, C., Martineau, F., López-Otálvaro, G.-E., Suchéras-Marx, B., Alméras, Y. and de Kænel, E.*
Deciphering control processes on mid-Jurassic coccolith turnover

10:00 am – 10:30 am Morning Coffee Break

10:30 am *Sheldon, E., Bjerager, M., Morigi, C. and Lauridsen, B.W.*
Paleoecology of early Paleocene cold-water coral and bryozoan mounds in Denmark

10:50 am *Ćorić, S., Gebhard, H., Briguglio, A. and Linert, J.*
Middle to late Eocene paleoenvironmental changes from the northern Tethyan margin (Adelholzen, Germany) traced by calcareous nannoplankton

11:10 am *Ausín, B., Flores, J.-A., Sierro, F.J., Hernández-Almeida, I., Grosjean, M., Francés, G. and Alonso, B.*
Reconstructing sea surface salinity for the last 25 kyr in the western Mediterranean from a coccolithophore-based transfer function

11:30 am *Baumann, K.-H. and Weiser, J.*
Coccolithophores in late glacial to Holocene sediments of the Norwegian Sea and their paleoceanographic implications

11:50 pm – 1:00 pm LUNCH

Session VII: **Coccolith Morphometrics, Imaging and other Techniques**

Chairs: Mario Cachao and Luc Beaufort

1:00 pm – 1:40 pm Keynote Talk by Luc Beaufort

Automated pattern recognition and biometry of calcareous nanofossils: 20 years of SYRACO development
(Beaufort, L., Barbarin, N., Gally, Y. and Probert, I.)

- 1:40 pm Cachão, M.
Replicates, why not?
- 2:00 pm – 2:40 pm Keynote Talk by Jorijntje Henderiks
Coccolith morphometrics: why, how, and what's next?
- 2:40 pm Tsutsui, H., Jordan, R.W., Abe, K. and Nishiwaki, N.
Morphometric analysis of early Eocene *Corbisema* skeletons (Silicoflagellata) from Mors, Denmark
- 3:00 pm Young, J.R.
Semi-automated morphometrics on coccoliths using ImageJ
- 3:20 pm – 4:00 pm Afternoon Coffee Break
- 4:00 pm – 5:00 pm INA Business Meeting
Awarding of Best Student Oral and Poster Presentations
- 6:30 pm – 9:30 pm DINNER (Sponsored by Dr. Michael L. Tan, Chancellor of the University of the Philippines – Diliman Campus)

MARCH 13-16 (FRIDAY - MONDAY)

Post Conference Fieldtrip in Palawan

LIST OF POSTERS

Advances in Nannofossil Biostratigraphy

Al-Badrani, O.A. and Al-Zubaidi, A.S.

Nannobiostratigraphy of Jaddala Formation (type section), Sinjar anticline, NW Iraq

Belia, E.R., Nick, K., Agudelo, E.B. and Concheyro, A.

Late Oligocene – early Miocene calcareous nanofossils from the basal Pisco Formation, Pisco Basin, Peru

Castro, A.L., Marquez, D.J.D., Rosario, D.J.G., Fernando, A.G.S. and Peleo-Alampay, A.M.

Revisiting Catanduanes Island: calcareous nanofossil biostratigraphy of its Cenozoic formations

Čorić, S., Pezelj, Đ., Mandić, O. and Vrabac, S.

Middle Miocene calcareous nannoplankton from the southern Pannonian Basin (Bosnia and Herzegovina)

Guballa, J.D.S. and Fernando, A.G.S.

Biostratigraphic analysis of the upper member of the Klondyke Formation using calcareous nanofossils

Hadavi, F., Khodadadi, L., Moheghy, M.A. and Moghaddam, M.N.
Cretaceous nannostratigraphy of the Kopet Dagh Mountain Range (northeast Iran)

Magtoto, C.Y., Guballa, J.D.S., Peleo-Alampay, A.M. and Fernando, A.G.S.
Age refinement of Cretaceous units on Catanduanes Island (eastern Philippines)
based on calcareous nannofossils

Mahanipour, A. and Parandavar, M.
Calcareous nannofossil assemblages at the Cretaceous-Paleogene transition at Lali section, SW Iran

Marquez, D.J., Nogot, J.R.C., Rosario, D.J., Fernando, A.G. and Peleo-Alampay, A.
Calcareous nannofossil and planktonic foraminiferal biostratigraphy of sedimentary units in Pangasinan, Philippines

Naih, C., Curtis, C. and Zainal, S.B.
Operational biostratigraphy of KBB gas field, offshore deep-water Sabah, Malaysia:
the use of nantoplankton in optimizing operational decisions in the oil and gas industry

Pérez Panera, J.P. and Angelozzi, G.N.
Pliensbachian-Toarcian calcareous nannofossil events in the Los Molles Formation, Neuquen Basin, Argentina

Stoykova, K., Dinarès-Turell, J. and Yilmaz, I.O.
The calcareous nannofossil record in the Cretaceous-Paleogene boundary interval of the Mudurnu-Goynuk Basin, NW Turkey: implications for intercalibration and reliability of nannofossil biohorizons

Utsunomiya, M., Tanaka, Y., Kusu, C., Nakamura, A., Majima, R. and Okada, M.
Calcareous nannofossil biostratigraphy and temporal variation of the flora near the Neogene-Quaternary boundary, Pacific side of central Japan

Recent Nanoplankton/Coccolithophores: Biogeography and Ecology

Carag, J.W.M. and Fernando, A.G.S.
Coccolithophore assemblages in the northern Sulu Sea

Kahn, A.
Vertical and horizontal distribution of modern coccolithophore species across the HV Melville Biological and Hydroacoustic Cruise transect, southern Indian Ocean

Malinverno, E., Rivero-Calle, S., Dimiza, M.D. and Triantaphyllou, M.V.
Coccolithophore contribution to sea-surface PIC along a latitudinal transect in the W Pacific sector of the Southern Ocean under non-bloom conditions

Nogot, J.R.C.P., Peleo-Alampay, A.M., Kashino, Y., Martin, M. and Tabbada, R.S.
Evidence of coccolithophore dissolution in the southern Philippine Sea

Patil, S.M., Mohan, R., Gazi, S. and Jafar, S.A.
Xenospheres (coccolithophores) from plankton samples of the southern Indian Ocean

Patil, S.M., Mohan, R., Gazi, S., Shetye, S. and Jafar, S.A.
Petastariaheterolepis (Prymnesiaceae) from the southern Indian Ocean

Prista, G.A. and Cachão, M.A.
Mussels as biological filters of coastal calcareous nanoplankton: a case study from the western coast of Portugal

Paleoclimate Studies

Cabarcos, E., Flores, J.-A., Singh, A.D. and Sierro, F.J.
A high-resolution record of monsoonal dynamics in the eastern Arabian Sea

Najafpour, A., Mahanipour, A. and Dastanpour, M.
Quantitative analysis of Late Campanian calcareous nanofossils in the Gurpi section (SW Iran)

Pérez Panera, J.P.
A 700 km and 145 million year ride: Mesozoic calcareous nanofossils in Holocene to recent sediments at the Bahía Blanca Estuary, Argentina

Shepherd, C.L., Kulhanek, D.K. and Hollis, C.J.
Early Eocene nanofossil responses to climate change, Canterbury Basin, New Zealand

Stoykova, K.
Nanofossil occurrences across the Paleocene-Eocene boundary in Bulgaria, SE Europe: state of the art

Weiser, J., Baumann, K.-H. and Zabel, M.
Late Holocene climate variability off southwestern Africa as inferred from coccolithophore assemblages and sediment elemental composition

Paleoceanography and Paleoenvironment Studies

Ausín, B., Flores, J.-A., Sierro, F.J., Bárcena, M.A., Francés, G., Gutiérrez-Arnillas, E., Martrat, B., Grimalt, J.-O. and Cacho, I.
Coccolithophore productivity and surface water dynamics in the Alboran Sea during the last 25 kyr

Čorić, S. and Rupp, C.
Lowermost Miocene calcareous nanoplankton and foraminifers from the Austrian part of the Alpine-Carpathian Foredeep (paleoecology and biostratigraphy) of Upper Austria

Fernandez, A.R.C. and Fernando, A.G.S.
Paleoceanographic history of the Bohol Sea from calcareous nanofossils during the Quaternary

Linnert, C., Lees, J.A., Dunkley Jones, T., Bown, P.R., Robinson, S. and Young, J.R.
Coccolith calcite Sr/Ca ratios: investigating a potential proxy for Late Cretaceous nanofossil paleoecology

Golovina, L.

The significance of coccolithophore assemblages as indicators of marine influx in Miocene deposits of the Eastern Paratethys

Tangunan, D. and Baumann, K.-H.

Response of coccolithophores to paleoproductivity changes in the western tropical Indian Ocean (off Tanzania, East Africa) for the past 25 kyrs

Vallejo, F., Restrepo, S., Pardo, A., Trejos, R., Flores, J.-A., Plata, A., Min, K., Foster, D.A. and López, S.A.

Miocene Andean uplift and its impact on planktonic communities in eastern equatorial Pacific basins

Vollmar, N.M. and Baumann, K.-H.

Paleoenvironmental changes in the North Atlantic (ODP Site 984) during Marine Isotope Stage 5 as deduced from coccolith reconstruction

Coccolith Morphometrics, Imaging and other Techniques

Bordiga, M., Bartol, M. and Henderiks, J.

Another drop in the ocean ... how to determine absolute coccolith abundance?

Tsutsui, H., Jordan, R.W., Takahashi, K. and Nishiwaki, N.

A semi-automated identification and semi-manual tally system for calcareous nanoplankton using light microscope images

Taxonomy and Evolution

Kim, H., Bown, P., Gibbs, S. and Hull, C.

Quantifying rates of plankton evolution immediately following the Cretaceous-Paleogene mass extinction event (IODP Site U1405, NE Atlantic)

Miniati, F., Cappelli, C. and Monechi, S.

New data on the structure of early fasciculiths from a combined LM and SEM study

Rutledge, D.C., Cole, S., Lawrence, T. and Gard, G.

A new species of Late Triassic nannofossil, *Botulustriassicus*, and observations on Triassic assemblages from the NW Shelf of Australia

Self-Trail, J.M., Seefelt, E.L., Shepherd, C.L. and Martin, V.A.

Preliminary biostratigraphic and morphometric comparisons between a new species of *Tribrachiatus* and *T. orthostylus*

Šupraha, L., Ljubešić, Z. and Henderiks, J.

Combination coccospheres from the eastern Adriatic coast (Mediterranean Sea)