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ENCLOSED :

- INA Meeting in Vienna 1985 (second circular)
- List of addresses

!! NOTE !!

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SALES OFFICE

Separate issues of the INA Newsletter can be obtained from the Secretary/Treasurer. Price per issue is:

- for non-members Dfl. 25,-
- for members Dfl. 17,50
- for student members Dfl. 5,-

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MAILING POLICY

Recent issues will be mailed by surface mail for countries inside Europe, by airmail or by SAL for countries outside Europe.

Back-issues will be mailed by surface mail, unless the extra costs for airmail are paid to the treasurer.

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MEMBERSHIP

Applications for membership of the International Nannoplankton Association should be directed to the Secretary/Treasurer. Annual dues: Dfl. 35,-

- * Those who pay their dues in U.S. dollars(\$ 12), are urged to send them to John Steinmetz(Marathon Oil, Denver Res.Center, P.O.269, Littleton, Col., U.S.A.) checks or money orders should be made out to INA; no account- or banknumber is necessary.
- * Students can become a member for a reduced price (Dfl.10,-; US \$ 4); please send a confirmation of your student-status when applying for membership.

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NEXT ISSUE

Contributions for the next issue of the INA Newsletter should be received before March 1984. Please send your contributions to: The editor of the INA Newsletter, S.E. van Heck (Address: see front page).

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REPRINTS

Please send reprints of your latest articles to John Steinmetz (Address see above), in order to keep the newsletter up to date!!

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INFORMATION TO CONTRIBUTORS

Manuscripts should not exceed four pages. They will be reproduced in the INA Newsletter without being re-typed. Hence the authors are entirely responsible for the contents and quality of their contributions. Manuscripts of poor quality can be refused by the editor.

Format: Manuscripts should be typed on A4 (this format); a blank margin of at least 2.5cm (1 inch) should border the upper, the left and the right side of each page, and the margin along the lower side should be 3.5 cm (1.5 inch).

DO NOT USE DOUBLE SPACING, as this takes up too much space!

EDITORIAL

At the early meetings of the International Nannoplankton Association (Rijswijk, Orleans, Copenhagen) the INA Newsletter was discussed with the members present. Most people agreed that the contents of the Newsletter were more important than its looks. In other words, it was felt there was no need for yet another glossy magazine at high costs, and we should keep it as simple as possible. Over the past few years however, more and more people have asked us to include photoplates and suggested that a cover for the Newsletter would be an improvement. Now that the number of members has grown, the financial situation is such that we can introduce some changes.

Starting with the next issue therefore, the Newsletter will get a cover, which we hope makes it more resistant to wear and tear.

Furthermore, we have decided to introduce a single photoplate as an experiment. This will enable us to realise an idea we have had for a long time, and which we have now labelled the UFO page(s). In the UFO pages, authors can depict Unidentified Fossil (or Floating?) Objects, to consult their colleagues. All of us have come across some odd forms now and then, not being able to find them in literature, and wondering if anybody else had ever come across it or whether it might be a new species. Next time you come across one of these, take a picture, put it in the Newsletter with the locality and approximate age, and what other information you can or want to give on it. Other people may know where it has been published, or they may have found it as well and can add their data to yours. Introduction of a new species may follow, with a reduced chance of introducing synonyms. Of course the photoplate may also be used to print photographs accompanying other contributions to the Newsletter. In this way, it will be possible to publish new species in the Newsletter. By doing this, we hope that some people will be encouraged to publish their findings through short contributions, which normally is not encouraged by other journals.

Finally we have decided to introduce a STUDENTS FEE next year. Irrespective of age, anybody who is a student is entitled to a reduction, and pays only Dfl 10,- (or US \$ 4,-). The only condition being that the fee is accompanied by some official university document stating that the person is a registered student.

This issue will be accompanied with a separate, updated list of addresses. We have chosen the format such, that you only need to make a copy of it to obtain labels that can be used to send off your reprints!

S.v.H.

FINANCES

Credits and debits in the period November 1983 - November 1984

Credit, 1-11-83: Dfl. 3601,-

<u>Out:</u>	17-11-83	Dfl.	417,-	Printing costs vol.5-2
	1-12-83	Dfl.	144,-	Mailing costs
	30- 1-84	Dfl.	55,-	Bot.Nomenclature
	17- 5-84	Dfl.	714,-	Printing costs back-issues
	7- 6-84	Dfl.	300,-	Printing costs vol.6-1
	8- 6-84	Dfl.	283,-	Mailing costs
			<u>Dfl. 1913,-</u>	

<u>In: Dues:</u>		Dfl.	4363,-
	Donation Phillips Petr.Expl.& Prod:	Dfl.	285,-
			<u>Dfl. 4648,-</u>

Credit, 1-11-84 Dfl. 6436,-

<u>In Stock:</u>	Vol.1-1: 3 copies	Vol.4-1: 32 copies
	,, 1-2: 2 ,,	,, 4-2: 36 ,,
	,, 2-1: 2 ,,	,, 5-1: 18 ,,
	,, 2-2: 3 ,,	,, 5-2: 40 ,,
	,, 3-1: 5 ,,	,, 6-1: 50 ,,
	,, 3-2: 42 ,,	

Members, 1-11-84: 217

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*                               DUES   *
*                                     *
* The annual dues for 1985 are Dfl.35,- ($12). If you wish *
* to stay a member of INA and to receive the newsletter, *
* PAY YOUR DUES BEFORE DECEMBER 31 !!!!!!! *
* Those of you who submit their dues in U.S.dollars,are *
* urged to send them to John Steinmetz(Marathon Oil, *
* Denver Res.Center,P.O.269,Littleton,Col.U.S.A.);checks *
* or money orders should be made out to INA;no account- *
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The Secretary

INA MEETING IN VIENNA 1985

Some 45 members of INA have shown their interest in a meeting in Vienna in September 1985. There are some "old hands" like H. Stradner, W.W. Hay, H. Manivit, B. prins and myself and many "young hands" from 20 countries on 5 continents. The proposed dates (19.9-21/22.9) suited 2/3 of them, the remaining 1/3 would prefer a meeting from 10.9-13.9 or in August, so

19 - 21/22 Sept. it will be.

The main interests of those who sent in the form:

Biostratigraphy	41	Cenozoic	35
Systematics	22	Mesozoic	26
living nannos	17		
Evolution	20		
Biogeography	32		
Ecology	1		
Diagenesis	2		

Also interested in silicoflagellates: 13

Intending to present a talk:	16
poster:	9
talk or poster:	7
	<u>32</u> , a meeting of activists....

There is a certain discrepancy between the interests of the members and the talks/posters offered. So many are interested in "systematics, living nannoplankton, evolution, biogeography", yet talks/posters deal mainly with some aspects of biostratigraphy, which, of course is one of the main interests of nearly all wishing to attend too. We will try to motivate some colleagues to talk about those topics that are asked for but not treated.

The possibility of studying the collections of Kamptner and Stradner are much appreciated:

29 want to see Stradner's collection
25 want to see Kamptner's collection
16 colleagues are willing to bring material/slides, from which they described new species. This poses an organisational problem. We might have to extend the period of time in which the collections are accessible for study - probably also on sept. 23 & 24, after the actual meeting. More about this with the next circular.

The excursion would be appreciated by some 30 applicants. More about this with the next circular.

The following "vehicles" have been suggested by the 36 who wanted to see some "proceedings" printed:

INA-Newsletter - Special Issue:	3
Abh. Geol. Bundesanstalt, Wien	: 2
Utrecht Micropal. Bull.	: 2

SEPM : 1
Revue de micropal. : 1
"cheap address" : 1

We will take up contact with the various editors. Sofar it looks as if we are going to make an effort to get the manuscripts printed - so START WRITING. We will give you the details about the format in the next INA Newsletter.

ABSTRACTS: The abstracts will be published as a special issue of the INA Newsletter. For this we need your COPY-READY ABSTRACT by MAY 31, 1985. For format see "Information to contributors" in the INA Newsletter, on page 2 of each issue. The abstracts should be 1-4 pages including text-figures but no photographs.

POSTERS: The following space is available for posters:
movable: 2x 1.50x1.30, and 2x 2.40x1.50 (h.=1.50)
not movable: 1.50x0.90 (series of max.9) (h.=1.50)(in room where microscopes will be available)
There is plenty of space for all posters sofar announced and even a few more.

REGISTRATION: Send in form in INA Newsletter of spring 1985 by JUNE 15

ACCOMODATION: Student hotel or hotel within walking distance of the meeting place. A reservation-card will be sent to those who have sent back the first circular. The rest is up to YOU.

LANGUAGE: If ever possible, ENGLISH (You still have a chance to learn for another year).

MEETING PLACE: Paläontologisches Institut der Universität WIEN, Universitätsstrasse 7, A-1010 Vienna, Austria.

REGISTRATION FEE: US \$ 50 or equivalent in Austrian Schillings- to be paid at arrival.

EXCURSION: on Sept. 22
Costs: ca. US \$ 20 (Bus and lunch in a restaurant).

EVENINGS: We will organise one evening at a "HEURIGEN" (place in the outer parts of Vienna, where they serve the last year's wine and "simple food"). Tickets for the opera are difficult to get, but those interested should indicate their interest in their registration form and we will try to get tickets. The program is not yet out.

K. Perch-Nielsen

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Compiled by John C. Steinmetz

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B118	<u>Cretarhabdus primus</u> BLACK 1971; pp. 402-403, pl. 31, fig. 2; England, Berriasian to Hauterivian.	A203-7
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	<u>Cruciplacolithus pinnatus</u> BLACK 1971; p. 397, pl. 30, fig. 5; England, Hauterivian.	A203-7
	<u>Cruciplacolithus salebrosus</u> BLACK 1971; p. 397, pl. 30, fig. 4; England, Berriasian and Hauterivian.	A203-7
	<u>Cyclicargolithus marismontium</u> (BLACK 1964) PERCH-NIELSEN 1984; p. 42 (ex <u>Coccolithus</u>).	A210-3
	<u>Cyclococcolithina birsuta</u> (MÜLLER 1970) BUKRY, BRABB, & VEDDER 1977; p. 1476. (ex <u>Cyclococcolithus</u>).	A4-8 *C-2
	<u>Discoaster graviterminatus</u> VAROL 1984; p. 382, figs. 3.10-3.12; Malta, middle Miocene, zones NN6-NN7.	A213-5
	<u>Discoaster megastypus</u> (BRAMLETTE & SULLIVAN 1961) PERCH-NIELSEN 1984; p. 42 (ex <u>Discoasteroides</u>).	A210-3
	<u>Discoaster tokerae</u> VAROL 1984; p. 383, figs. 3.14-3.15; Malta, middle Miocene, zones NN6-NN7.	A213-5
	<u>Ellipsagelosphaera coronata</u> (GARTNER 1968) BLACK 1971; p. 398 (ex <u>Coccolithus</u>).	A203-7
	<u>Ellipsagelosphaera fasciata</u> (WIND & ČEPEK 1979) PERCH-NIELSEN 1984; p. 43 (ex <u>Watznaueria</u>).	A210-3
	<u>Ellipsagelosphaera forbesii</u> BLACK 1971; pp. 398-399, pl. 30, fig. 9; England, Barremian to Upper Albian.	A203-7
	<u>Ellipsagelosphaera fossacincta</u> BLACK 1971; p. 399, pl. 30, fig. 8; England, Hauterivian to Barremian.	A203-7
	<u>Ellipsagelosphaera gephyrocapsoides</u> BLACK 1971; p. 399, pl. 30, fig. 7; England, Berriasian.	A203-7
	<u>Eprolithus septentrionalis</u> (STRADNER 1963) PERCH-NIELSEN 1984; p. 43 (ex <u>Lithastrinus</u>).	A210-3

- Gartnerago stenostaurion (HILL 1976) PERCH-NIELSEN 1984; p. 43 (ex Broinsonia). A210-3
- Glaukolithus compactus (BUKRY 1969) PERCH-NIELSEN 1984; p. 43 (ex Zygodiscus). A210-3
- Grantarhabdus BLACK 1971; p. 403. Type species: Grantarhabdus meddii BLACK 1971. A203-7
- Grantarhabdus meddii BLACK 1971; p. 403, pl. 33, fig. 7; England, Berriasian. Type species of Grantarhabdus BLACK 1971. A203-7
- Helicosphaera neolophota BUKRY in BARRON, BUKRY, & POORE 1984; p. 152, pl. 5, figs. 10-21; California (USA), upper middle Eocene Coccolithus staurion Subzone (CP13c) and Discoaster bifax Subzone (CP14a). A202-7
- Hemipodorhabdus BLACK 1971; pp. 403-404. Type species: Hemipodorhabdus latiforatus BLACK 1971. A203-7
- Hemipodorhabdus latiforatus BLACK 1971; p. 404, pl. 31, fig. 6; England, Hauterivian and Aptian. Type species of Hemipodorhabdus BLACK 1971. A203-7
- Liliasterites STRADNER & STEINMETZ 1984; p. 594. Type species: Liliasterites angularis SVABENICKA & STRADNER in STRADNER & STEINMETZ 1984. A212-5
- Liliasterites angularis ŠVÁBENICKÁ & STRADNER in STRADNER & STEINMETZ 1984; p. 594, pl. 24, figs. 1-4, text-fig. 6A; Bohemia, Czechoslovakia and South Atlantic, Angola Basin, DSDP Site 530, late Turonian. Type species of Liliasterites STRADNER & STEINMETZ 1984. A212-5
- Liliasterites atlanticus STRADNER & STEINMETZ 1984; p. 594, pl. 22, fig. 7, pl. 23, figs. 1, 2, 4-7, text-fig. 6B; South Atlantic, Angola Basin, DSDP Site 530, late Turonian. A212-5
- Lithostromation biconvexitas VAROL 1984; p. 383, figs. 3.17-3.19; middle Miocene, zones NN6-NN7; and southern Turkey, late Miocene to early Pliocene, zones NN10-NN15. A213-5
- Lithostromation deflandrei (STRADNER 1959) PERCH-NIELSEN 1984; p. 42 (ex Polycladolithus). A210-3
- Microstaurus BLACK 1971; p. 404. Type species: Microstaurus quadratus BLACK 1971. A203-7
- Microstaurus lindensis BLACK 1971; p. 405, pl. 32, fig. 1; England, Aptian. A203-7

B120	<u>Microstaurus quadratus</u> BLACK 1971; pp. 404-405, pl. 32, fig. 2; England, Berriasian and Hauterivian. Type species of <u>Microstaurus</u> .	A203-7
	<u>Micula praemurus</u> (BUKRY 1973) STRADNER & STEINMETZ 1984; p. 595 (ex <u>Tetralithus</u>).	A212-5
	<u>Micula quadrata</u> (STRADNER 1961) PERCH-NIELSEN 1984; p. 43 (ex <u>Tetralithus</u>).	A210-3
	<u>Micula swastica</u> (sensu PRINS 1977) STRADNER & STEINMETZ 1984; p. 595, pl. 31, figs. 3, 5, 6; South Atlantic, Angola Basin, DSDP Site 530, upper Maastrichtian.	A212-5
	<u>Neocrepidolithus cohenii</u> (PERCH-NIELSEN 1968) PERCH-NIELSEN 1984; p. 43 (ex <u>Crepidolithus</u>).	A210-3
	<u>Nodosella perch-nielseniae</u> (FILEWICZ, WIND, & WISE in WISE & WIND 1977) PERCH-NIELSEN 1984; p. 43 (ex <u>Corollithion</u>).	A210-3
	<u>Nodosella silvaradion</u> (FILEWICZ, WIND, & WISE in WISE & WIND 1977) PERCH-NIELSEN 1984; p. 43 (ex <u>Corollithion</u>).	A210-3
	<u>Octopodorhabdus plethotretus</u> WIND & CEPEK 1979; p. 230-231. Invalid ICBN Art. 34.4.	A72-4 *C-3
	<u>Octopodorhabdus polytretus</u> WIND & CEPEK 1979; p. 240. Invalid ICBN Art. 34.4.	A72-4 *C-3
	<u>Orthogonoides</u> WIEGAND 1984; p. 1152. Type species: <u>Orthogonoides hamiltoniae</u> WIEGAND 1984.	A213-8
	<u>Orthogonoides hamiltoniae</u> WIEGAND 1984; p. 1155, fig. 2; North Atlantic, west of Morocco, DSDP Hole 547B, upper Sinemurian to lower Pliensbachian. Type species of <u>Orthogonoides</u> WIEGAND 1984.	A213-8
	<u>Parhabdolithus stubbingsii</u> BLACK 1971; pp. 394-395, pl. 33, figs. 10,11; England, Hauterivian.	A203-7
	<u>Percivalia imperfossa</u> BLACK 1971; pp. 416-417, pl. 33, fig. 5; England, Hauterivian to Upper Albian.	A203-7
	<u>Perissocyclus</u> BLACK 1971; p. 405. Type species: <u>Perissocyclus noelae</u> BLACK 1971.	A203-7
	<u>Perissocyclus fenestratus</u> (STOVER 1966) BLACK 1971; p. 406 (ex <u>Zycolithus</u>).	A203-7
	<u>Perissocyclus fletcheri</u> BLACK 1971; pp. 406-407, pl. 32, fig. 3; England, Berriasian.	A203-7

B121

- Perissocyclus nœlæ BLACK 1971; pp. 405-406, pl. 32, fig. 6; England, Hauterivian. Type species of Perissocyclus BLACK 1971. A203-7
- Podorhabdus biperforatus (ROOD, HAY, & BARNARD 1973) PERCH-NIELSEN 1984; p. 43 (ex Discorhabdus). A210-3
- Podorhabdus septentrionalis BLACK 1971; pp. 407-408, pl. 32, fig. 5; England, Berriasian to Hauterivian. A203-7
- Pontosphaera desueta (MÜLLER 1970) PERCH-NIELSEN 1984; p. 42 (ex Discolithina). A210-3
- Pontosphaera enormis (LOCKER 1970) PERCH-NIELSEN 1984; P. 42 (ex Discolithina). A210-3
- Pontosphaera inconspicua (SULLIVAN 1964) PERCH-NIELSEN 1984; p. 42 (ex Discolithus). A210-3
- Pontosphaera latielliptica (BALDI-BEKE & BALDI 1974) PERCH-NIELSEN 1984; p. 42 (ex Discolithina). A210-3
- Pontosphaera latoculata (BUKRY & PERCIVAL 1971) PERCH-NIELSEN 1984; p. 42 (ex Discolithina). A210-3
- Pontosphaera ocellata (BRAMLETTE & SULLIVAN 1961) PERCH-NIELSEN 1984; p. 42 (ex Discolithus). A210-3
- Pontosphaera punctosa (BRAMLETTE & SULLIVAN 1961) PERCH-NIELSEN 1984; p. 42 (ex Discolithus). A210-3
- Polypodorhabdus paucisectus BLACK 1971; p. 408, pl. 32, fig. 8; England, Berriasian. A203-7
- Prediscosphaera arkhangelskyj (REINHARDT 1965) PERCH-NIELSEN 1984; p. 43 (ex Eiffellithus). A210-3
- Prediscosphaera avitus (BLACK 1973) PERCH-NIELSEN 1984; p. 43 (ex Deflandrius). A210-3
- Prediscosphaera columnata (STOVER 1966) PERCH-NIELSEN 1984; p. 43 (ex Deflandrius). A210-3
- Prediscosphaera implumis (BLACK 1973) PERCH-NIELSEN 1984; p. 43 (ex Deflandrius). A210-3
- Prediscosphaera ponticula (BUKRY 1969) PERCH-NIELSEN 1984; p. 43 (ex Prediscosphaera cretacea ponticula). A210-3
- Prinsius tenuiculum (OKADA & THIERSTEIN 1979) PERCH-NIELSEN 1984; p. 42 (ex Bisculum?). A210-3
*C-4

B122	<u>Retecapsa</u> BLACK 1971; p. 409. Type species: <u>Retecapsa brightoni</u> BLACK 1971.	A203-7
	<u>Retecapsa angustiforata</u> BLACK 1971; p. 409, pl. 33, fig. 4; England, Barremian.	A203-7
	<u>Retecapsa brightoni</u> BLACK 1971; p. 409, pl. 33, fig. 3; England, Hauterivian. Type species of <u>Retecapsa</u> BLACK 1971.	A203-7
	<u>Retecapsa levis</u> BLACK 1971; p. 410, pl. 33, fig. 1; England, Barremian to Albian.	A203-7
	<u>Retecapsa neocomiana</u> BLACK 1971; p. 410, pl. 33, fig. 2; England, Hauterivian.	A203-7
	<u>Rhabdolithina ampla</u> BLACK 1971; p. 418, pl. 34, fig. 1; England, Aptian.	A203-7
	<u>Rhabdolithina clavulus</u> BLACK 1971; pp. 417-418, pl. 34, fig. 3; England, Berriasian to Hauterivian.	A203-7
	<u>Rhabdolithina excavata</u> BLACK 1971; p. 418, pl. 34, fig. 2; England, Hauterivian to Albian.	A203-7
	<u>Rhabdolithina swinnertoni</u> BLACK 1971; p. 418, pl. 34, fig. 4; England, Aptian.	A203-7
	<u>Rhagodiscus eboracensis</u> BLACK 1971; p. 419, pl. 33, fig. 9; England, Hauterivian.	A203-7
	<u>Rhomboaster spineus</u> (SHAFIK & STRADNER 1971) PERCH-NIELSEN 1984; p. 42 (ex <u>Marthasterites</u>).	A210-3
	<u>Rhombolithion duodecostatum</u> (GOY in GOY, NOEL, & BUSSON 1979) PERCH-NIELSEN 1984; p. 43 (ex <u>Diadorhombus</u>).	A210-3
	<u>Rhombolithion horellii</u> (ROOD & BARNARD 1972) PERCH-NIELSEN 1984; p. 43 (ex <u>Diadorhombus</u>).	A210-3
	<u>Rhombolithion octocostatum</u> (ROOD & BARNARD 1972) PERCH-NIELSEN 1984; p. 43 (ex <u>Diadorhombus</u>).	A210-3
	<u>Rotelapillus caravacaensis</u> (GRÜN in GRÜN & ALLEMANN 1975) PERCH-NIELSEN 1984; p. 43 (ex <u>Stephanolithion</u>).	A210-3
	<u>Rotelapillus crenulatus</u> (STOVER 1966) PERCH-NIELSEN 1984; p. 43 (ex <u>Stephanolithion</u>).	A210-3
	<u>Rotelapillus munitus</u> (PERCH-NIELSEN 1973) PERCH-NIELSEN 1984; p. 43 (ex <u>Stephanolithion</u>).	A210-3

- Rotelapillus octoradiatus (GARTNER 1968) PERCH-NIELSEN 1984; p. 44 (ex Corollithion). A210-3
- Scyphosphaera brevis VAROL 1984; p. 380, figs. 3.5-3.7; Malta, middle Miocene, zones NN6-NN7; and southern Turkey, late Miocene to early Pliocene, zones NN10-NN15. A213-5
- Scyphosphaera inversiconica VAROL 1984; pp. 380-381, figs. 3.9, 3.13; Malta, middle Miocene, zones NN6-NN7; and southern Turkey, early Pliocene. A213-5
- Scyphosphaera quasitubifera VAROL 1984; p. 381, figs. 3.4, 3.8; Malta, middle Miocene, zones NN6-NN7. A213-5
- Sollasitaceae BLACK 1971 (family); p. 411. A203-7
- Sollasites arcuatus BLACK 1971; p. 413, pl. 31, fig. 9; Berriasian. A203-7
- Sollasites hayi (BLACK 1973) PERCH-NIELSEN 1984; p. 44 (ex Cruciplacolithus). A210-3
- Sollasites pinnatus (BLACK 1971) PERCH-NIELSEN 1984; p. 44 (ex Cruciplacolithus). A210-3
- Speetonia BLACK 1971; p. 413. Type species: Speetonia colligata BLACK 1971. A203-7
- Speetoniaceae BLACK 1971 (family); p. 413. A203-7
- Speetonia colligata BLACK 1971; p. 413, pl. 34, fig. 10; England, Berriasian and Hauterivian. Type species of Speetonia BLACK 1971. A203-7
- Speetonia nitida BLACK 1971; p. 414, pl. 34, fig. 11; England, Hauterivian. A203-7
- Staurolithites fibrosus BLACK 1971; pp. 419-420, pl. 34, fig. 5; England, Hauterivian. A203-7
- Staurolithites rectus BLACK 1971; p. 419, pl. 34, fig. 6; England, Barremian. A203-7
- Stephanolithion elongatum (MEDD 1979) PERCH-NIELSEN 1984; p. 44 (ex Stephanolithion speciosum elongatum). A210-3
- Stephanolithion octum (ROOD & BARNARD 1972) PERCH-NIELSEN 1984; p. 44 (ex Stephanolithion speciosum octum). A210-3
- Stradnerlithus BLACK 1971; p. 414. Type species: Stradnerlithus comptus BLACK 1971. A203-7

- Stradnerlithus callomonii (ROOD, HAY, & BARNARD 1971) A210-3
 PERCH-NIELSEN 1984; p. 44 (ex Diadozygus).
- Stradnerlithus comptus BLACK 1971; p. 415, pl. 31, fig. 10; A203-7
 England, Kimeridgian. Type species of Stradnerlithus BLACK
 1971.
- Stradnerlithus delftensis (STRADNER & ADAMIKER 1966) BLACK A203-7
 1971; p. 415 (ex Zygolithus).
- Stradnerlithus ellipticus (BUKRY 1969) PERCH-NIELSEN 1984; A210-3
 p. 44 (ex Corollithion).
- Stradnerlithus fractus (BLACK 1973) PERCH-NIELSEN 1984; p. A210-3
 44 (ex Corollithion).
- Stradnerlithus fragilis (ROOD & BARNARD 1972) PERCH-NIELSEN A210-3
 1984; p. 44 (ex Actinozygus).
- Stradnerlithus langii (ROOD & BARNARD 1972) PERCH-NIELSEN A210-3
 1984; p. 44 (ex Diadozygus).
- Stradnerlithus sexiramatus (PIENAAR 1969) PERCH-NIELSEN A210-3
 1984; p. 44 (ex Zygolithus). *C-5
- Tetrapodorhabdus BLACK 1971; pp. 410-411. Type species: A203-7
Tetrapodorhabdus coptensis BLACK 1971.
- Tetrapodorhabdus coptensis BLACK 1971; p. 411, pl. 31, fig. A203-7
 7; England, Albian. Type species of Tetrapodorhabdus BLACK
 1971.
- Tetrapodorhabdus hunmanbiensis BLACK 1971; p. 411, pl. 31, A203-7
 fig. 8; England, Hauterivian.
- Toweius africanus (PERCH-NIELSEN 1980) PERCH-NIELSEN 1984; A210-3
 p. 42 (ex Prinsius).
- Toweius? crassus (BRAMLETTE & SULLIVAN 1961) PERCH-NIELSEN A210-3
 1984; p. 42 (ex Coccolithus).
- Tranolithus macleodiae (BUKRY 1969) PERCH-NIELSEN 1984; p. A210-3
 44 (ex Zygodiscus).
- Tranolithus minimus (BUKRY 1969) PERCH-NIELSEN 1984; p. 44 A210-3
 (ex Zygodiscus).
- Transversopontis pygmaea (LOCKER 1967) PERCH-NIELSEN 1984; A210-3
 p. 42 (ex Discolithina).
- Triorbis VAROL 1984; p. 381. Type species: Triorbis dizerae A213-5
 VAROL 1984.

B126

Pithonella bassriverensis OLSSON & YOUSSEFNIA 1979; p. 1090, pl. 1, figs. 13-16; New Jersey (USA), Bass River Formation, Cenomanian.

A214-5

Pithonella globosa FÜTTERER 1984; p. 536, pl. 2, figs. 1-9; South Atlantic, Walvis Ridge, DSDP Hole 527, Late Maastrichtian. Range: late-middle Maastrichtian to early Danian.

A214-2

Pithonella parva FÜTTERER 1984; pp. 536, 537, pl. 3, figs. 1-10, pl. 4, figs. 8-9; South Atlantic, Walvis Ridge, DSDP Hole 527, late Paleocene (NP9). Range: early Paleocene (NP1) to early Pleistocene (NN19).

A214-2

Pithonella woodburyensis OLSSON & YOUSSEFNIA 1979; p. 1091, pl. 1, fig. 11, pl. 2, figs. 1-6; New Jersey (USA), Woodbury and Merchantville formations, Santonian-Campanian.

A214-5

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COMMENTS

- 1 - B118: Cribosphaera hauteriviana, err. cit. pro Cribosphaera hauteriviana.
- 2 - A4-8, B118: Cyclococcolithina birsuta, err. cit. pro Cyclococcolithina hirsuta. The code on reference A4-8 should be changed from (syst) to syst to reflect this new combination.
- 3 - A72-4, B56, B120: Octopodorhabdus plethotretus WIND & ČEPEK 1979, pp. 230-231, and Octopodorhabdus polytretus WIND & ČEPEK 1979, p. 240 are both invalid under ICBN Art. 34.4 ("When ...two or more different names are proposed simultaneously for the same taxon by the same author, none of them is validly published.").
- 4 - B121: Bisculum?, err. cit. pro Biscutum?
- 5 - B124: Stradnerlithus sexiramatus, err. cit. pro Stradnerlithus sexiradiatus.

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CORRECTIONS

- B8: Corollithion perch-nielseniae: pl. 63 should be corrected to pl. 61.
- B72: Diadorhombus duodecostatus should be Diadorhombus duodecostatus.

Species names in alphabetical order.

acutus, Chiastozygus?
additus, Calculites
africanus, Toweius
albatrosiana, Orthopithonella (C)
altus, Catinaster
ambiguus, Bukryolithus
ampla, Rhabdolithina
angularis, Liliasterites
angustiforata, Retecapsa
arcuatus, Sollasites
arkhangelskyj, Prediscosphaera
astralis, Biantholithus
atlantica, Pithonella (C)
atlanticus, Liliasterites
avitus, Prediscosphaera
baldiae, Corollithion
barremianus, Cretarhabdus
bassriverensis, Pithonella (C)
bevieri, Aspidolithus
biconvexitas, Lithostromation
biperforatus, Podorhabdus
birsuta, Cyclococcolithina
brevis, Scyphosphaera
brightoni, Retecapsa
brotzenii, Cruciplacolithus
callomonii, Stradnerlithus
caravacaensis, Rotelapillus
clavulus, Rhabdolithina
cohenii, Neocrepidolithus
colligata, Speetonia
columnata, Prediscosphaera
compactus, Glaukolithus
comptus, Stradnerlithus
conicus, Bomolithus
coptensis, Tetrapodorhabdus
coronata, Ellipsagelosphaera
crassus, Toweius?
crenulatus, Rotelapillus
deflandrei, Lithostromation
delftensis, Stradnerlithus
desueta, Pontosphaera
dizerae, Triorbis
dorsalis, Triquetrorhabdulus
duodecostatum, Rhombolithion
eboracensis, Rhagodiscus
ellipticus, Stradnerlithus
elongatum, Stephanolithion
embergeri, Zeugrhabdotus
enormis, Aspidolithus
enormis, Pontosphaera
excavata, Rhabdolithina
farnsworthii, Triquetrorhabdulus
fasciata, Ellipsagelosphaera
fenestratus, Perissocyclus
fibrosus, Staurolithites
fletcheri, Perissocyclus
forbesii, Ellipsagelosphaera
fossacineta, Ellipsagelosphaera
fractus, Stradnerlithus
fragilis, Stradnerlithus
fragilis, Cretarhabdella
furtivus, Aspidolithus
gartneri, Biscutum
gephyrocapsoides, Ellipsagelosphaera
globosa, Pithonella (C)
gorkae, Bidiscus
graviterminatus, Discoaster
hamiltoniae, Orthogonoides
hauteriviana, Cribrosphaerella?
hauteriviana, Cribrosphaera
hayj, Sollasites
horellii, Rhombolithion
hunmanbiensis, Tetrapodorhabdus
imperfossa, Percivalia
implumis, Prediscosphaera
inconspicua, Pontosphaera
inversiconica, Scyphosphaera
jansae, Calcivascularis
jurassicum, Bicarinelum (C)
langii, Stradnerlithus
lateralis, Cretarhabdella
latielliptica, Pontosphaera
latiforatus, Hemipodorhabdus
latoculata, Pontosphaera
leptoporus centrovalis, Calcidiscus
levis, Retecapsa
limbatum, Calcigonellum (C)
lindensis, Microstaurus
macleodiae, Tranolithus
magnacavus, Aspidolithus
marismontium, Cyclicargolithus
meddii, Grantarhabdus
megastypus, Discoaster
minimus, Tranolithus
multiforus, Cretarhabdus
munitus, Rotelapillus
neocomiana, Retecapsa
neolophota, Helicosphaera
nitida, Speetonia
noelae, Perissocyclus
ocellata, Pontosphaera
octocostatum, Rhombolithion
octoradiatus, Rotelapillus
octum, Stephanolithion
parasolis, Carinellum (C)
parcus constrictus, Aspidolithus

parvus, expansus, Aspidolithus
 parva, Pithonella (C)
 parvus, Chiastoplacolithus
 pauciramosus, Truncatoscaphus
 paucisectus, Polypodorhabdus
 pemmatoidea, Apertapetra
 perch-nielseniae, Nodosella
 perstrata, Caterella
 pinnatus, Cruciplacolithus
 pinnatus, Sollasites
 plethotretus, Octopodorhabdus *
 polytretus, Octopodorhabdus *
 ponticula, Prediscosphaera
 praemurus, Micula
 primus, Cretarhabdus
 pseudanthophorus, Zeugrhabdotus
 punctosa, Pontosphaera
 pygmaea, Transversopontis
 quadrata, Micula
 quadratus, Microstaurus
 quastitubifera, Scyphosphaera

rectus, Stauroolithes
 reticulatus, Zygodiscus
 salebrosum, Biscutum
 salebrosus, Cruciplacolithus
 senarius, Truncatoscaphus
 septentrionalis, Eprolithus
 septentrionalis, Podorhabdus
 sexiramatus, Stradnerlithus
 silvaradion, Nodosella
 spineus, Rhomboaster
 stenostaurion, Gartnerago
 sriatus, Chiastozygus
 stubbingsii, Parhabdololithus
 swastica, Micula
 swinnertoni, Rhabdolithina
 tenuiculum, Prinsius
 tenuis, Chiastozygus
 tokerae, Discoaster
 veternum, Biscutum
 woodburyensis, Pithonella (C)

New genus names.

Alasphaera	Hemipodorhabdus	Perissocyclus
Bukrylithus	Liliasterites	Retecapsa
Calcivascularis	Microstaurus	Speetonia
Caterella	Obliquipithonella (C)	Stradnerlithus
Cretarhabdella	Orthogonoides	Tetrapodorhabdus
Grantarhabdus	Orthopithonella (C)	Triorbis

New super-generic names.

Biscutateae, Crepidolithaceae, Sollasitaceae, Speetoniaceae

(C) = Calcisphere.

* = Invalid.

Discoaster multiradiatus in the Paleocene of S E England

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The Thanet Formation and Reading/Woolwich Formation of Kent, S.E. England have been biostratigraphically dated as Upper Paleocene in age by a variety of microfossil groups. The Thanet stage was defined on these units and has its type area in the Isle of Thanet, eastern Kent. For full discussion of the sediments, the localities mentioned below, age determination and previous nannofossil studies see Curry et al. (1978, pp. 20-21, Table 1) and Hamilton (in Lord 1982, pp. 137-143, Fig. 6.1, Table 6.1).

Prior to the work of Hamilton the base of the Discoaster multiradiatus Zone (NP9) has been placed approximately at the junction of the Thanet and Reading/Woolwich Formations in the Kent sequence (Curry et al., 1978, Table 1). Hamilton (op. cit.) in a re-investigation of the Paleocene of eastern Kent discovered a single D. multiradiatus in the top of the Thanet Formation at Reculver and consequently lowered the NP8/NP9 boundary. A more detailed investigation of the same Reculver - Herne Bay section by Aubry (1983, pp. 48-49) failed to find D. Multiradiatus and as a consequence she assigned the entire Thanet Formation to NP8, although noting that younger levels of the Thanet Formation might nonetheless belong to Zone NP9. The importance of the precise location of this boundary stems from the wide use of the stage name 'Thanetian' outside the type area.

We have carefully re-examined the first occurrence level of D. multiradiatus (= base NP9) in the Paleocene of Kent. First, we looked again at the remainder of Hamilton's original sediment sample (her actual slide being no longer available) and failed to find further specimens of D. multiradiatus. Second, we re-examined the entire sequence of Thanet and Reading/Woolwich Formations at Pegwell Bay and Reculver - Herne Bay, with very accurately located samples collected as far as possible from fresh sediments in foreshore exposures. A single D. multiradiatus was found in the Thanet Formation at the top of the Pegwell Bay section, i.e. stratigraphically even lower than the previous record from the top of the formation of Reculver.

All normal field and laboratory procedures to avoid contamination were taken and we therefore believe that our record is genuine, however, how much significance should be attached to a single specimen is a matter of opinion. The nannofloral assemblages of the type Thanetian clearly stand in need of detailed re-examination.

Details : Discoaster multiradiatus from Sample 14, Reculver Silts, Pegwell Bay, Kent; section behind hoverport. Photographs UCL - 1999-1 to UCL - 1999-10. (copies available on request)

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