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Newsletter Secretary's Bit

Dear colleagues,

Our next official conference, the most relevant of the EAOG activities, is now approaching. Next fall the 25th IMOG edition will be held in Interlaken, Switzerland from 18th to 23rd September. The Abstract Submission period is over now and the organizers would like to thank all authors for their numerous (over 600!) and high quality submissions. The scientific and organising committees headed by Erik Tegelaar and Volker Dieckmann are already hard at work to make the 25th IMOG a scientific and social success. Now is time to register, hurry up, early registration deadline is July 1st, you still have the opportunity to early register for the conference ([Register for the 25th IMOG](#)). Details about IMOG 25 organization can be found now at the conference site (<http://www.imog2011.com>).

In this issue, you will find Ger's last news at the Chairman's column, a call for the General Assembly, as well as the usual OG events, most cited papers in OG and something to keep you busy under the sunny summer.



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We really hope that you find this 29th EAOG Newsletter useful, and enjoy it as much as we enjoy compiling it for you. However, in order to continue serving information of interest, we would really like to hear from you at eaognews@aljarafe.net, where your feedback, comments and contributions will always be very much appreciated.

Newsletter Secretary's Image: Interlaken, with Jungfrau, Bernese Oberland, Switzerland.

Francisco J. González-Vila & José A. González-Pérez

Find: The EAOG site at: <http://www.eaog.org>

The EAOG Newsletter at: <http://www.eaog.org/newsletters/newsletters.html>, contributions and suggestions to: eaognews@aljarafe.net

All the info about the next EAOG International Meeting at: <http://www.imog2011.org>

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Dear friends and fellow-geochemists,

Summer is again upon us and after the summer it is only a short time until IMOOG 2011 in Interlaken, where I hope to meet many of you. I have had the privilege of being involved in a part of the preparations and I can assure you that both the scientific and the social program promise to be very interesting. We should also not forget that it is the 25th time an IMOOG is being organized, 49 years after the first meeting in Milano in 1962. I would be very surprised if this fact will not be mentioned by any of the speakers in Interlaken. Rumour has it, that one or more of the Milano

participants will be present in Interlaken – and that should tell you how addictive Organic Geochemistry can be.

Personally, I have been a faithful IMOOG participant “only” since 1979 (Newcastle). What I remember most from that conference is meeting many of the “celebrities” that I only knew from the literature. Over the years, the nature of the conferences has changed somewhat to the modern format, but the basic principle – bringing together scientists from the full width of organic geochemistry, from biogeochemistry to petroleum – has been kept unchanged and to my knowledge the IMOOGs are unique in this (with the possible exception of the Gordon Research Conferences). Although it can be challenging at times to design a scientific program with such a broad appeal, I believe that we have been successful in the past and the 2011 program promises no less.

As always, we will have the 2011 General Assembly during IMOOG. One of the key items on the agenda will be a proposal for changes in the membership set-up (see elsewhere in this newsletter), which are of importance to all members. Hence, I hope you will come to the General Assembly to share your opinions with the Board.

For now, I wish all of you a good summer and hopefully very relaxing holidays, and I am looking forward to seeing many of you in Interlaken.

Best greetings
Ger

Ger W. van Graas

EAOG-General Assembly

Call

Invitation to EAOG General Assembly, Interlaken, September 22, 2011

The 2011 EAOG General Assembly will be held on Thursday afternoon during the IMOOG in Interlaken. The main item on the agenda will be changes to our membership options related to the move of our member administration from Elsevier to EAGE. This – in combination with the recently entered new agreement between Elsevier and EAOG – opens up for new membership options, such as membership without journal.

At the meeting, the board will propose the layout for membership options for 2012 onwards with the aim to obtain member support for this. More information will be sent out in advance of the meeting.

As this issue is very important for EAOG, we encourage all members to plan and participate in the General Assembly.

I hope to see many of you there!
Ger van Graas
Chairman EAOG

Ger van Graas, June 2011



The European Association of Organic Geochemists (EAOG) was founded in 1983. The organisation has strong European roots but boasts an international membership and pursues a global agenda. It seeks to promote organic geochemistry in its broadest sense by encouraging collaboration between its scientists and those from other disciplines. The International Meeting on Organic Geochemistry (IMOG) is organized every two years and the EAOG official journal is Organic Geochemistry (<http://www.sciencedirect.com/science/journal/01466380>).

EAOG membership numbers almost 500, and is still rising! You don't have to be European to be a member of the EAOG. Our members come from around the globe - the Americas, Asia, Australasia, Africa and Europe - more than 40 countries in all.

The process to become an EAOG member is very easy: download the application form, simply fill it out and post it to Elsevier at the address shown. Elsevier will take care of the details, including billing. The application for EAOG Membership form can be found at the following address: http://www.eaog.org/membership/eaog_app.pdf

EAOG Awards

European Association of Organic Geochemists: Pieter Schenck Award

The Pieter Schenck Award is given every second year to a scientist normally under 35 years of age who has made a major contribution in any specific area of organic geochemistry or a related field.

Previous awardees were:

Jaap S. Sinninghe Damsté (1993)

Mark A. McCaffrey (1995)

Marcel M. Kuypers (2007)

Katherine H. Freeman (1997)

Stefan Schouten (1999)

Helen M. Talbot (2009)

Kliti Grice (2001)

Richard Pancost (2005)

The successful candidate for the 2011 Pieter Schenck Award will be announced at the 25th EAOG International Meeting on Organic Geochemistry in Interlaken (Switzerland) September 18 to 23 2011.

European Association of Organic Geochemists: travel scholarships *OPEN!*

Since 1989 the EAOG has offered travel scholarships for young scientists studying in the field of Organic Geochemistry/Biogeochemistry. The scholarships are intended to foster international exchange, by providing young scientists the opportunity to undertake research in a country other than their own, through utilizing facilities in a host laboratory and by exchanging ideas, expertise and techniques.

Eligible students are those in the last stages of their Ph.D. studies (*i.e.* within one year of completion of their thesis) or newly qualified Ph.D.s who wish to work on a project related to their thesis. Applications are open to both Europeans and non-Europeans. At the end of the scholarship it is expected that a short report on the work performed in the host laboratory will be submitted to the Award Committee.

In recent years, the EAOG has been able to increase the yearly number of awards and their maximum amount thanks to the generous support by **Chevron**, **Geoservices**, **Schlumberger** and **Shell**.

There are two deadlines for applications per year: 31st March and 30th September. Candidates not selected could be considered just once more at the following session. Applications will be considered by the adjudication committee: Dr L. Schwark (Chairman), Dr. W. Michaelis, Dr R. Summons, Dr J.A. Curiale and Dr R. Evershed.

Applicants are requested to send a specific proposal (preferably by email as pdf, MS Word, or text files with not more than 1000 words) outlining their proposed research and budget, together with a CV and letters of recommendation from the host and home laboratories to Dr Lorenz Schwark, Institute of Geosciences (Department of Geosciences), Christian-Albrechts-Universität zu Kiel (CAU), Ludewig-Meyn-Straße 10, Otto-Hahn-Platz 1, 24118 Kiel, Germany.

E-mail: ls@gpi.uni-kiel.de, Tel.: +49 431 880 2850 • Fax +49 431 880 4376.





Welcome to the anniversary issue of the International Meeting on Organic Geochemistry (IMOG). The 25th IMOG, the official biennial conference of the European Association of Organic Geochemists (EAOG), will be held in Interlaken, Switzerland from Sunday 18th – Friday 23th September 2011. Full details are available at the IMOG 2011 website: <http://www.imog2011.org>.

This is the largest meeting on Organic Geochemistry and for this edition we are expecting more than 500 participants from all over the world. The full Scientific Programme for IMOG 2011 is now available. The five day extensive programme includes 85 oral and 516 poster presentations and is available by clicking [here](#).

For further information regarding registration, travel to Interlaken and the social programme please visit the conference website www.imog2011.com

We look forward to welcoming you in Interlaken.

Organizing Committee:

Dr. Volker Dieckmann, Shell Rijswijk, The Netherlands (Conference Chairman)
 Dr. Erik Tegelaar, Shell Rijswijk, The Netherlands (Scientific Committee Chairman)
 Dr. Pim van Bergen, Shell Aberdeen, Scotland
 Prof. Stefano Bernasconi, ETH Zurich, Switzerland
 Dr. Michael Schmidt, University of Zurich, Switzerland
 Dr. Carsten Schubert, EAWAG, Switzerland

25th IMOG Sponsors





25th IMO

Interlaken, Switzerland. 18-23 September 2011

Our next International meeting on Organic Geochemistry (25 IMO) has already appeared on the horizon. Further details will be increasingly available on the website so make sure you visit <http://www.imog2011.org> to find out what will be happening during the Meeting (both scientifically and socially) and how to register!



STUDIUM CONFERENCE "Hydrogen Isotopes as Environmental Recorders"

Orléans, France. 15-16 Sep 2011

The objective of this unique international venue is to assess and improve environmental information obtained from stable hydrogen isotopic analyses of organic compounds and associated waters. Oral presentations will consist of invited speakers. Additional knowledge will be shared via posters that all participants are encouraged to present. A special issue of research papers in *Geochimica et Cosmochimica Acta* will be an outgrowth of the conference. All participants are invited to submit articles for this issue that will first undergo normal peer-review procedures.

Additional information such as the scientific programme, abstract submission, social events, important dates and registration fees, is available on the conference website: <http://lestudium.cnrs-orleans.fr/hydrogen.html>

NOTE: Transportation by chartered bus will be available to Interlaken following the conference for those attending the 25th IMO Congress in Interlaken.

6th ISMOM, 3rd Inter Congress of Division 2.5, IUSS, 2011 "Soil Interfaces in a Changing World"

Montpellier, France 26 June - 1 July 2011

ISMOM (International Symposium on Interactions of Soil Minerals with Organic Components and Microorganisms) is a series of international symposia organised by sub-division 2.5 (Soil chemical, physical and biological interfacial reactions) of the International Union of Soil Sciences (IUSS). The aim of the symposia is to create a forum for exchange and discussion between scientists from different fields of soil science: chemistry, biology, biochemistry, physics, ecology and environmental science. ISMOM-2011, Soil Interfaces in a Changing World, follows successful 4-yearly meetings in Canada, France, Italy, China and Chile. We shall follow the tradition of a friendly, stimulating encounter between scientists from all facets of soil science. There will not be parallel sessions, and generous periods will be allotted to poster presentations, discussions and social events. Registration fees will be as low as possible and all-inclusive (lunches, coffee breaks, mid-week trip, gala dinner and welcome cocktail) with special rates for students and bursaries for students and scientists from under-funded countries.

All the information is available in the web page: <http://www1.montpellier.inra.fr/ISMOM2011>

17th ICCP, International Congress on the Carboniferous and Permian

The University of Western Australia, Perth, Western Australia. 3-8 July 2011

ICCP Congresses are run every four years. Scientists interested in all aspects of the Carboniferous and Permian are invited to meet in this meeting to discuss recent advances in understanding one of the most dynamic intervals in Earth History. The 100 my Carboniferous-Permian interval includes the final amalgamation and initial breakup of the Pangea supercontinent, the last major ice-ages before those of the Quaternary, the proliferation of terrestrial vegetation as shown in the world's major coal deposits, and at the end of the Permian — the greatest known global mass extinction of animals and plants. The Congress offers an opportunity to place local and regional research in a global context and to renew and initiate links with colleagues from other parts of world.

All the information is available in the web page: <http://www.iccp2011.org/>

Gordon Research Conference: Catchment Science: Interactions Of Hydrology, Biology & Geochemistry "Sentinels of Global Change"

Lewiston, Maine, USA. 10-15 Jul 2011

The Catchment Science: Interactions of Hydrology, Biology & Geochemistry Gordon Research Conference will be held in conjunction with the Catchment Science: Interactions of Hydrology, Biology & Geochemistry Gordon-Kenan Research Seminar. The 2011 Catchment Science Gordon Research Seminar and Conference will critically evaluate whether "sentinels" is a catchy anthropomorphism or a critical concept for catchment scientists. We will search for examples of Sentinels from the Past. Using historical datasets we will peer into the past to examine how watersheds responded to global change. Doing so will help answer what to measure, where to measure it, and if and when systems reach tipping points beyond which they cannot recover. It will also help answer if defining a reference condition from the past is appropriate for managing ecosystems in the present or future.

All the information is available in the web page: <http://www.grc.org/programs.aspx?year=2011&program=catchment>

INQUA — XXVIII Congress of the International Union for Quaternary Research

Bern, Switzerland. 20-27 Jul 2011

During the Quaternary (the last 2.6 million years) the Earth has repeatedly undergone substantial climatic and environmental changes that interfered with ecosystems and social systems. The Quaternary therefore provides a rich and ever-fascinating palette for research that aims to better understand the dynamical processes on the Earth's surface. Once every four years Quaternarists from all over the world meet at the INQUA Congress to exchange on latest research results and develop agendas for the years to come. Since 1928, INQUA, the International Union for Quaternary Research, promotes communication and international collaboration in Quaternary research. The current scientific scope of INQUA is reflected by its five Commissions: Coastal and Marine Processes, Palaeoclimate, Humans and Biosphere, Stratigraphy and Chronology, Terrestrial Processes, Deposits and History.

All the information is available in the web page: <http://www.inqua.tcd.ie/>

**The Society for Organic Petrology (TSOP) Annual Meeting
Halifax, Nova Scotia, Canada. 31 Jul-4 Aug 2011**

With the conference theme: "21st century energy resources and petroleum systems" with the aim to follow-up on their very successful TSOP Halifax '98 meeting, this edition will bring once again an excellent program that will be an invaluable resource for your endeavours in this field. The congress will approach: Petroleum Systems and Evaluation of the Unconventional Resources (Shale Gas or Shale Oil, Coal Bed methane, Gas Hydrate and Hydrogen); Offshore Exploration: Source Rocks & Petroleum Systems; Clean Coal Technology, CO₂ Sequestration and Other Environmental Issues related to Coal and Petroleum use. Field trip is organized for shale gas evaluation in Elgin and Moncton subbasins, Joggins Fossil Cliffs, as well as a short course: on geochemistry, maturation, and petroleum system modelling related to shale gas evaluation will be organized. The information is available in the web page: <http://www.tsop.org/2011Halifax>

**Goldschmidt 2011
Prague, Czech Republic. 14-19 Aug 2011**

The Goldschmidt conference will be held in the Prague Congress Centre that will host all the scientific sessions under one roof. If you have been to a recent Goldschmidt conference, you will automatically receive mailings for Goldschmidt2011, otherwise you can add your email address to their mailing list. All the information is available in the web page: <http://www.goldschmidt2011.org/>

**IAGS2011 - 25th Int. Applied Geochemistry Symposium of the Association of Appl. Geochem. (AAG)
Rovaniemi, Finland, 22-26 Aug 2011**

The meeting will focus on applied geochemistry under the theme Towards Sustainable Geochemical Exploration, Mining and the Environment, which encompasses a variety of disciplines, including applied geochemistry, new ways of analysis, interpretation of data and the importance of taking care of the environment in mineral exploration and mining. The technical programme, special sessions, workshops, and pre- and post-excursions support the theme. The Symposium is jointly organized by the Geology section of the Finnish Association of Mining and Metallurgical Engineers with the geoscientists from the Geological Survey of Finland and the Institute of Geosciences at the University of Oulu. Support also comes from professionals in the mineral exploration industry and a geochemical laboratory that operates in the region. All the information is available in the web page: <http://www.iags2011.fi>

**SlopeTecto 2011 — 2nd Conference on Slope Tectonics
Vienna, Austria. 06-11 Sep 2011**

The main focus of the Conference on Slope tectonics is (1) mass-movement induced structures and fabrics from local to regional scale, (2) their description, (3) mapping, (4) geotechnical analyses and (5) evolution modelling. Topics include: Mass wasting, Landslides, Slope Failures, Deep-seated Gravitational Deformations. All the information is available in the web page: http://www.geologie.ac.at/slope_tecto_2011/

**CEEC-TAC — Central and Eastern European Conference on Thermal Analysis and Calorimetry (CEEC-TAC)
Craiova, Romania. 07-10 Sep 2011**

Every two years, CEEC-TAC aims to gather scientists from Central and Eastern Europe, from Germany and Austria to Russia and Kazakhstan, and from the Baltic countries to the Balkans, Turkey and the Caucasians. Researchers in the field of Thermal Analysis and Calorimetry from all over the world are welcomed to share experience and knowledge with those working in complementary fields or just using thermo-analytical techniques. Besides the regular conference, we wish organizing working sessions, where in a relaxed and informal environment the participants can talk about plans and their needs, thus fostering new contacts and further collaborations.

All the information is available in the web page: <http://www.ceec-tac.org>

**BHSS2111- Bulgarian Humic Substances Society 3rd international Conference
"HUMUS SUBSTANCES - INNOVIATION IN SCIENCE AND PRACTICE"
Sofia, Bulgaria 12-16 Sept 2011**

The conference will be held at the Institute of Soil Science "N. Poushkarov". Conference topics include: Humus substances - characteristics properties and methods for Analysis; Humus state and soil fertility; Soil organic matter and biodiversity; Manufactured humus products and their application; Composting of organic wastes and possibilities for application of composts; Modern methods of soil organic matter conservation – rhizosphere bioproducts, soil microflora activators etc.

All the information is available in the web page: <http://bhss.itp.bg/3confEn.htm>

**ISFR2011 — 6th International Symposium on Feedstock Recycling of Polymeric Materials
Toledo, Spain. 5-7 Oct 2011**

The congress is aimed to review, from both scientific and technological points of view, the state of the art and the current situation of the different alternatives and processes for the valorization of polymeric residues by their transformation into raw chemicals, fuels, commercial products and/or energy. In spite of the progress and advances achieved in many countries along the past decade with the development of integrated systems for the management of polymer wastes, landfilling remains in many cases as the preferred option. Thus, polymer recycling rates are still quite below of those corresponding to other materials, such as paper, glass and metals. Disposal of polymer wastes in landfills should be the last option according to a hierarchical waste management system as it possesses the strongest environmental impact and involves a loss of valuable resources. Therefore, novel methods must be implemented in the near future for fostering the recycling and recovery of polymeric residues. These methods are expected to comply with a number of criteria, such as high material and energy efficiency and low environmental impact, while affording an attractive profitability so they may allow the modern societies to successfully face the challenge of managing in a right way the huge and increasing amounts of polymeric wastes they generate.

All the information is available in the web page: <http://www.isfr2011.escet.urjc.es/>

**CEPE2011 - International Conference on Environmental Protection Engineering (CEPE)
Shanghai, China. 28-30 Oct 2011**

CEPE is part of World Congress on Engineering and Technology (CET) which will take place in Shanghai China. The CET is composed of several conferences on the frontier topics in the engineering and technological subjects. The CEPE conference proceedings will be published by IEEE, and the accepted papers will be indexed by Ei Compendex and ISTP. The conference is soliciting state-of-the-art research papers in the many areas of interest related to environmental protection. All the information is available in the web page: www.engii.org/cet2011/cepe2011.aspx

7th INGEPET

Lima, Peru. 7-11 Nov, 2011

INGEPET is jointly organized every three years by Perupetro with the support of main hydrocarbon companies and other institutions whose cooperation is essential to guarantee that this event will be a success for all the involved. The meeting is by now a tradition in the hydrocarbon industries of both Peru and Latin America as a whole. It provides a space to exchange knowledge, enrich experiences, and showcase originality and technological innovation; which contribute to improve oil and gas exploration and production activities and to an integrated Latin American industry focused on the environment and social responsibility. It is a known fact that the organization of a new version of INGEPET always exceeds, in all senses, its prior version, and this time shall be no exception.

All the information is available in the web page: <http://www.ingepet.com/en/default.asp>

20th World Petroleum Congress

Doha, Qatar. 4-8 Dec. 2011

Held every three years, the World Petroleum Congress and Exhibition is the largest and most reputable oil and gas industry gathering in the world. The 20th World Petroleum Congress is hosted by Qatar Petroleum and will take place at the Qatar National Convention Centre (QNCC) in Doha, Qatar, from 4-8 December 2011. Since its establishment in 1933, this is the first time that the World Petroleum Congress will be hosted in the Middle East.

All the information is available in the web page: <http://www.20wpc.com/>

AGU Fall Meeting 2011

San Francisco, California, USA. 5-9 Dec 2011

Latest scientific discoveries about Earth and our solar system, spanning fields that range from climate science to volcanology, and from asteroids to solar physics.

<http://sites.agu.org/fallmeeting/>

22nd Goldschmidt

Montréal, Canada. 24-29 Jun 2012

The GEOTOP research center and Montréal are proud to host the 22nd Goldschmidt™ conference in June 2012. This conference will focus on the Earth in Evolution. Building on the foundations of 21 previous Goldschmidt conferences, this event is sure to include great science, exciting activities and the chance to network and socialise with many groups and individuals working in the field.

All the information is available in the web page: <http://www.goldschmidt2012.org/>

EUROSOIL2012

"Soil Science for the Benefit of Mankind and Environment"

Bari, Italy. 2-6 Jul 2012

The congress aims to encompass several aspects and to offer ample opportunity to explore many issues of current Soil Sciences. The main objective of the scientific programme and structure of the Congress is to provide an interactive forum of exchange of ideas by bringing together and establishing durable and strict relationships among older and younger soil scientists and researchers, technical and professional operators, industry and administrative representatives, policy makers and regulators operating in the field of Soil Sciences. The scientific programme of EUROSOIL 2012 is structured in 13 general topics that include 83 symposia and 16 workshops focused on the variety and complexity of Soil Science disciplines. Further, a number of roundtables, open debates, short courses and technical and business meetings will enrich the Congress programme.

All the information is available in the web page: <http://www.eurosoil2012.eu/>

IHSS 16 – 16th Meeting of the International Humic Substances Society

Zijingang Campus, Zhejiang University, Hangzhou, China. 9-14 Sep 2012

The objective of this conference is to provide a forum for the interactions and communication of chemists, microbiologists, and physicists with allied scientists including pure chemists, biologists, environmental scientists, soil scientists, water scientists and ecologists to address the current state-of-the-art on "Functions of Humic Substances in Changing Environment". It is hoped that the conference would lead to identification of gaps in knowledge and as such to provide future research directions and promote research on the characterization, function, application of humic substances in environment, agriculture, and industry. This is expected to lead to advance the frontiers of knowledge on biophysico-chemical processes in humic substances and related environmental systems and their biogeochemical and ecological impacts and also to promote education in this extremely important and challenging area of science for years to come, which is also expected to contribute toward the international advancement of environmental chemistry and its impacts on the terrestrial ecosystem.

All the information is available in the web page: <http://zjklsp.zju.edu.cn/IHSS2012/index.html>

Top 10 Cited articles published in Organic Geochemistry in the last five years

- 1)** Weijers J.W.H., Schouten S., Spaargaren O.C., Sinninghe Damsté J.S. (2006). Occurrence and distribution of tetraether membrane lipids in soils: Implications for the use of the TEX86 proxy and the BIT index. 37(12): 1680-1693
- 2)** Cheng C.-H., Lehmann J., Thies J.E., Burton S.D., Engelhard M.H. (2006). Oxidation of black carbon by biotic and abiotic processes. 37(11): 1477-1488
- 3)** Sachse D., Radke J., Gleixner G. (2006). δD values of individual n-alkanes from terrestrial plants along a climatic gradient - Implications for the sedimentary biomarker record. 37(4): 469-483
- 4)** Hockaday W.C., Grannas A.M., Kim S., Hatcher P.G. (2006). Direct molecular evidence for the degradation and mobility of black carbon in soils from ultrahigh-resolution mass spectral analysis of dissolved organic matter from a fire-impacted forest soil. 37(4): 501-510
- 5)** Vandenbroucke, M., Largeau, C. (2006). Kerogen origin, evolution and structure. 38 (5): 719-833
- 6)** Galimov, E.M. (2006). Isotope organic geochemistry. 37 (10): 1200-1262
- 7)** Talbot, H.M., Summons, R.E., Jahnke, L.L., Cockell, C.S., Rohmer, M., Farrimond, P. (2008). Cyanobacterial bacteriohopanepolyol signatures from cultures and natural environmental settings. 39 (2): 232-263
- 8)** Huguet, C., Hopmans, E.C., Febo-Ayala, W., Thompson, D.H., Sinninghe Damsté, J.S., Schouten, S. (2006). An improved method to determine the absolute abundance of glycerol dibiphytanyl glycerol tetraether lipids. 37 (9): 1036-1041
- 9)** van Dongen, B.E., Talbot, H.M., Schouten, S., Pearson, P.N., Pancost, R.D. (2006). Well preserved Palaeogene and Cretaceous biomarkers from the Kilwa area, Tanzania. 37 (5): 539-557
- 10)** McCallister, S.L., Bauer, J.E., Ducklow, H.W., Canuel, E.A. (2006) Sources of estuarine dissolved and particulate organic matter: A multi-tracer approach. 37 (4): 454-468

