

## Annual Report 2008

### Summary

The report year of 2008 was for TecTask a period of establishing new contacts and searching for new directions to boost structural geology and tectonics

In 2007 we shifted our focus towards south of the Mediterranean Sea into Northwest Africa with the intension to support training and continue education for African geologists in context with increasing demand by commodity industries in Geology knowledge transfer and particular in Structural Geology expertise. As a result we supported again a field training course Burkina Faso. A new initiative in 2008 was the setup of the training program JEBEL in Egypt and the Middle East

In 2009 we will intensify our attempts in bringing together industry and research interests at various occasions, while pursuing our major goal to be a knowledge and communication platform for the international community in Structural Geology and Tectonics.

### Commission Officers and members

In accord with the IUGS guidelines, the following colleagues serve presently as TecTask Officers:

Prof. Cees Passchier - Mainz	Chairperson
Dr. Mark Jessell - Toulouse, France	Vice Chairperson
Dr. Hermann Lebit - Houston, USA	Secretary General
Prof. Bruce Hobbs - Perth, Australia	
Prof. John Dewey - Davis, USA	
Prof. Ron Vernon - Sydney, Australia	
Prof. Paul Bons - Tübingen, Germany	

The following colleagues serve as Members of the commission

Prof. Sudipta Sengupta, Calcutta, India  
Dr. Elena Druguet, Bcelona, Spain  
Prof. Kim Hein, South Africa  
Prof. Martin Lompo, Burkina Faso  
Prof. Toru Takeshita, Japan

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### **1 Activities of TecTask Officers and Members**

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As stated in our work plan, our aim is to participate in the following activities:

- i. Develop, maintain and expand an internet portal on research programmes, funding organisations, events, databases, teaching materials etc. (website)
- ii. Encourage organisation of special sessions on dedicated tectonic related topics in conferences, field trips, prizes and stimulate the production of review papers
- iii. Develop standards and databases on Rheology and other tectonic/structural issues
- iv. Promote structural geology education and application particularly in developing countries
- v. Advise IUGS, ILP and IGP for their future developments in tectonics and structural geology.
- vi. Stimulate international cooperation and coordination in Tectonics and Structural Geology
- vii. Heritage protection
- viii. and as a new initiative in 2008:
- ix. Enhancement of digital mapping techniques in structural geology

We divide these tasks over members and officers as follows:

- i – Jessell, Lebit
- ii – Vernon, Dewey
- iii – Bons, Jessell, Takeshita
- iv – Passchier, Lompo, Sengupta, Takeshita
- v , vi - Officer team
- vii – Bons, Druguet
- viii - Passchier, Jessell

Some officers will be charged with the task to apply and lobby for additional funding. This will be mainly the task of Dewey, Hein and Lebit.

### **2 The TecTask Website**

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One of our main activities focuses on maintenance and expansion of our website, which serves as the major communication platform of our community. The website is operational at:

<http://www.TecTask.org/>

The TecTask Website was set up to provide a resource for those interested in Structural Geology and Tectonics. As of 1/11/2008 we now have more than 600 registered members from 55 Countries (Algeria, Argentina, Australia, Austria, Belgium, Brazil, Bulgaria, Burkina Faso, Cameroon, Canada, Colombia, Costa Rica, Czech Republic, Denmark, Egypt, Estonia, Finland, France, Georgia, Germany, Ghana, Greece, Hungary, Iceland, India, Iran, Ireland, Israel, Italy, Japan, Korea, Netherlands, Nigeria, Niger, Norway, PR China, Pakistan, Perú, Poland, Portugal, Sénégal, Slovakia, Slovenia, South Africa, Spain, Sweden, Switzerland, Thailand, Trinidad & Tobago, Turkey, UK, USA, Ukraine, Venezuela, Vietnam). Over the past year the member enrolment is approaching a level of saturation and we will take efforts to increase awareness and approach potential new members, particular from developing countries, which represent presently about 20% .

Each member can update personal information and research interests, which are stored in a searchable database, and 171 of these members have provided links to their personal home pages.

The site now hosts several links and pages related to group activities as well as a considerable collection of downloadable freeware. We greatly acknowledge the program authors' efforts and their willingness to make those programs publicly available.

The website hosts the Outcropedia and Geoheritage initiatives (see below).

In terms of individual visits to the site we are averaging more than **1000 visitors** a month, and taking March 2008 as an example, we had visitors from: France, the US, Poland, Burkina Faso, Germany, Czech Republic, United Kingdom, Greece, Canada, Spain, Italy, Colombia, India, Singapore, Netherlands, Switzerland, Brazil, Seychelles, Sweden, Japan, Romania, Austria, Bermuda, Hungary and Thailand.

## **Sponsoring**

In order to make registration on the TecTask website more attractive, we have asked publishers of tectonic Journals to provide registered participants of TecTask with a discount on books and Journals. So far, we have been able to obtain a discount from the "Journal of the Virtual Explorer" and the "Journal of Structural Geology". An arrangement has been made to publish activities of TecTask in the Journal of Structural Geology in order to reach a larger public.

## **3 Special conference sessions**

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TecTask supported three conferences during 2008: the 33 IGC in Oslo, Norway; the 2008 GSA Joint Assembly, Houston, USA and the YORSGET Conference, Oviedo, Spain.

### **33 IGC in Oslo, Norway**

#### **TecTask contributed to the 33 IGC in the following ways:**

1. Two sessions were sponsored by TecTask
  - 1.1 Marine and Continental Fold and Thrust Belts – STT 06
  - 1.2 Numerical and Analogue modeling in Structural Geology STT 08
2. Poster and flyers that informed about the mission and activities of TecTask
3. Observing the IUGS General assembly

#### 4. Facilitating contacts with other groups and initiatives

##### ***1.1 Marine and Continental Fold and Thrust Belts***

Conveners:

Dr. Hermann Lebit, TecTask General Secretary, Marathon Oil Company Houston, USA)

Prof. Rob Butler, Univ. Aberdeen, Scotland

Dr. Signe Ottesen, StatoilHydro, Stavanger, Norway

Dr. Chis Hedland, Shell International, Houston, USA

Prof. Stefano Mazzoli, Univ. Naples, Italy

##### **Objective:**

Continental Fold and Thrust Belts spectacularly express lithospheric deformation processes and their study pioneered our understanding in modern Structural Geology and Plate Tectonics. Marine fold and thrust belts, not less spectacular, became increasingly eminent during the past decades due to extensive geophysical data acquisition pursued by off-shore hydrocarbon exploration along various continental margins. Though individual fold and thrust systems may have developed under considerably different boundary conditions (gravitational driven versus tectonic shortening) they reveal remarkable similarities in internal architecture and style of deformation. The symposiums intention is to bring together scientists from research and industry to discuss those similarities in fold and thrust belt architectures, the underlying kinematics and mechanics in context of the different tectono- stratigraphic settings as well as aspects of geohazard.

We welcome contributions from a multi-disciplinary spectrum of relevant approaches focusing on fold and thrust belt development that may regard local to regional studies, analog/numerical experiments or application of innovative technologies.

##### **Format:**

We had a full day session that covered a wide range of papers focusing either on regional aspects and fundamental topics related to the development of fold and thrust belts in various tectonic setting.

##### **Publication:**

A special publication, either with the Geological Society London or the Geological Society of America is in the pipeline. This publication will combine contributions of the above session as well as those from a similar session held at the GSA Joint assembly in Houston in October 2008.

##### **1.2 Numerical and Analogue modeling in Structural Geology**

Conveners:

Prof. Sudipta Sengupta, Jadavpur University, Calcutta, India

Prof. Hermin Koyi, Uppsalla University, Sweden

Prof. Paul Bons, University Tuebingen, Germany

##### **Funding:**

Prof. Sudipta Sengupta received a travel support from TecTask in the amount of Euro 500.

## **2. Information on TecTask**

A poster exposed at the IUGS booth provided information on the TecTask's activities and invited interested scientist to actively participate in existing or newly proposed initiative. For the same purpose a flyer (~1000) was available at the booth (see Appendix A).

## **3. IUGS General Assembly**

Hermann Lebit participated in the 2 days of 2008 IUGS General Assembly as observer and provided a brief report to TecTask's board members.

## **4. Contacts**

The following contacts were made with the purpose to increase communication and closer relations with national associations and/or other initiatives of IUGS.

### ***OneGeology***

A brief discussion with activists of OneGeology focused on how TecTask can participate in this important project. Our Outcropedia initiative was introduced as a platform to provide significant information on individual and perhaps endangered sites. TecTask is in communication with this initiative to discuss on data formats and compatibility issues.

### ***Lebanon***

Representatives of the Lebanese Geological Society and Lebit discussed option of support for their geological community and to foster research in the unique tectonic environment of the Levantine strike-slip system.

### ***Usbekistan***

Brief contact with some representatives of Usbek Geological institutions.

### ***Cameroon***

Discussion with the representative of Cameroon on short courses in her country. We are currently working with the Universities of Yaoundé I and Ngaoundéré to run a field based training course in December 2009, for which TecTask will provide support if required.

### ***China***

Global discussion on publications in Episodes.

## **2008 GSA Joint Assembly, Houston**

Another session on Marine and Continental Fold and Thrust Belts was held at the 2008 GSA Joint Assembly in Houston, Texas. The session was sponsored by TecTask, the GSA division on Structural Geology & Tectonics and the Gulf Coast Association of Geological Societies.

Conveners:

Prof. Rob Butler, University of Aberdeen, Scotland

Dr. Hermann Lebit, Marathon Oil Corporation, Houston, TX

Prof. Terry Pavlis, University of Texas El Paso, El Paso, TX  
Luke Jensen, Shell Internataional, Houston, TX

Format and objectives of the session were similar to those of the 33 IGC session as both events form part of a series that is intended to tour various conference at different continents.

### Contacts:

#### GSA Devison: Structural Geology and Tectonics

Hermann Lebit represented TecTask at the organization meeting of the GSA Structural Geology and Tectonics devison.

### YORSGET Conference, Oviedo, Spain

The first international meeting of Yong Researchers in Structural Geology and Tectonics was organized by an enthusiastic group of students at the University of Oviedo, Spain. The meeting had drawn a large attention (221 participants from 25 countries) as it fills a significant gap in the international conference landscape with its focus on young scientists. The other aspect of the great success of the meeting is due to the effort and enthusiasm of the organization committee, the format and schedule of the meeting, and the venue of the pre-conference field trip.

A detailed conference report can be found in the appendix.

TecTask officers provided significant consulting during planning and organization of the conference, in particular in discussing the proper format and helped with the invitations of the key note speakers (See Appendix B for final report from this meeting).

TecTask also provided funds (Euro 1000) in support of students, particular from less developed countries to participate in the meeting.

International Meeting of Young Researchers in Structural Geology and Tectonics  
-YORSGET-  
1-3 July 2008, Oviedo, SPAIN

Pre-conference field trip: 28-30 June 2008 (transect across the Variscan Orogen in NW Spain)

Main menu: Home, Topics, Committee, Deadlines, Pre-registration, Registration, Abstract submission, Programme, Keynote talks, Field trip, For Authors, Social events, Venue, Accommodation, Transport, Contact us

Welcome...  
Welcome to the webpage of the **International Meeting of Young Researchers in Structural Geology and Tectonics (YORSGET), Oviedo (Spain), 1-3 July 2008.**  
The conference addresses young researchers in structural geology and tectonics to present their work and benefit from lively discussion with colleagues of various levels of expertise. In addition it will serve as an arena of exchange and relationship building where research teams, academic institutions and industry may discuss career options with young talented researchers. We therefore encourage participants from the entire professional spectrum to take in particular senior researchers and industry professionals are welcome to share their experience and knowledge with the future generation in our science.  
The conference program includes oral and poster presentations. The oral sessions will be preceded by keynotes of well established scientists in Structural Geology and Tectonics. We also encourage you to participate in the optional pre-conference field trip across the Variscan Orogen in NW Spain on 28th-30th June 2008.  
We hope to see you in the International Meeting of Young Researchers in Structural Geology and Tectonics -YORSGET- (Oviedo, Spain - 2008).

Deadlines and News  
- Pre-registration 19 Jun 2008  
- Full registration 15 March 2008  
- Abstracts 15 March 2008  
- Field trip 28-30 June 2008  
Travel grants available !!  
Field trip pre-registered attendees: 36

Keynote talks  
Prof. Neil Mancktelow  
"Fracture and Flow in Natural Rock Deformation"

Tourist information  
Asturias  
Oviedo

Locations with at least one pre-registered attendee participant so far...  
Add your dot!

Sponsors...  
400, Universidad de Oviedo 188-208, Dpt. of Geology Univ. of Oviedo, Fac. of Geology Univ. of Oviedo, EPS G. Scheiz Univ. of Oviedo (Applied Geology), IIGG, TecTask, AYUNTAMIENTO DE OVIEDO, INSTITUTO TECNOLÓGICO DE OVIEDO

#### **4 Presentation of TecTask to the public and other scientific organisations**

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Our major public exposure is the Internet as it can reach those that have reduced opportunities to participate in the major international conferences and/or have limited access to professional publications (both are getting constantly more expensive).

TecTask is pursuing better communication and establishment of appropriate networks among individual scientific organisations and research groups (e.g. national Tectonic Study Groups). One aspect of this commitment is to maintain comprehensive listings of those organisations on our website (see [www.TecTask.org](http://www.TecTask.org)) while anticipating similar back links in return. Such agreements were worked out for instance with the Tectonic and Structural Geology division of the Geological Society of America or the Tectonics Study Group affiliated with The Geological Society, UK.

The second, perhaps more significant aspect of this activity concerns those organisations or groups that have limited ability for Internet presence (e.g. insufficient infrastructure, excessive cost for web space, etc.).

The Geoheritage initiative seeks collaboration with World Heritage and GeoPark program of UNESCO, as well as similar initiatives in the IUGS community.

#### **Heritage Network**

##### **The Geo Heritage Initiative**

Geological Heritage is an essential segment in the World Heritage responsibility to preserve the unique record of the world's evolution. This initiative wants to raise awareness on a particular segment in the worldwide geo-conservation movement. It seeks to preserve, protect, and to manage geological sites significant for our understanding in Structural Geology and Tectonics.

Contacts were established among groups in Spain (Druguet) and France (Tafar Aifa) and United Kingdom (Rob Butler) who are active in the setup of networks of protected structural geological sites. This is important since many sites of great scientific and educational value are under threat from building activities. It is important to set up an international network of registered sites, and a warning network that can take action when important sites are threatened. Druguet and Bons have launched this network and submitted a questionnaire on endangered sites to the public.

The initiative is associated with compiling information on Geological Heritage sites with special emphasis in sites of tectonic and structural geology interest, providing the geological and non-geological communities with this information so that they can appreciate and give importance to geo-heritage, and promoting the conservation and use of tectonic geosites as educational/scientific resources.

In compliance with these main aims, information on Geoconservation principles and initiatives was put on TecTask website, together with a survey that will be useful to prepare a world-wide, internet available, database of important structural geology and tectonics locations.

We hope that with the collaboration of geologist from around the world we will construct a large database of tectonics and structural geology heritage. In terms of future initiatives and projects, such database is intent to serve as public resource for research and educational purposes. Among the most important activities to do in the near future is to look after and

strengthen those sites listed in the database that are not located in any protected area and thus are threatened by construction, landfills, etc. From TecTask we might do specific actions to trigger their protection for educational and scientific purposes upon geoconservationist criteria.

## Outcropedia

“Outcropedia was set up in its initial format in 2007. The aim of Outcropedia is to make a central, public database of the most important and beautiful outcrops in the World. This has two main purposes:

(1) to make outcrops in unfamiliar places known and accessible to other geologist who would like to organise field trips, learn new things or set up new cooperative research

(2) to increase protection of our geological heritage. Many beautiful outcrops are built over or damaged because it is not known that they are of interest to geologists. A central database of interesting outcrops will increase chances of getting previous warning when certain sites are endangered. This purpose is linked with the Geoheritage initiative mentioned above



*Example of the Outcropedia file for Cap de Creus, Spain*

The preferred medium for the Outcropedia is presently Google Earth, and the Outcropedia will be accessible as .kml files that can be downloaded from the TecTask website. This will include data on outcrops, excursions as combinations of outcrops, and facilities relevant for fieldtrips.

Outcropedia is now well-established on the TecTask website and promises to become one of our most important initiatives. The most important problem is to find a way to encourage more TecTask members, and structural geologists in general, to enter items for the Outcropedia

The Journal of Structural Geology has agreed to publish a special page in the Journal explaining the Outcropedia initiative. This will be published at the end of 2008.

## **5 Structural Geology Education**

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### A – Publications

A new publication for the general public on structural geology is in preparation by Passchier and Vernon.

Lecture Notes Earth Sciences: Microdynamics Simulation. Bons, Paul, Koehn, Daniel, Jessell, Mark (eds.). 406p, Springer 2007

This book covers the basics of numerical simulation of geological processes, with special reference to microstructure simulation, and comes with a full install of the Elle simulation system.

Possibilities are presently investigated to provide websites and a book on field-based structural geology, giving specific examples of complex, confusing structures. Present textbooks provide an adequate selection of photographs and drawings of common structures, but these are highly idealised and normally only applicable in certain lithologies and metamorphic conditions. The need exists for teaching material showing what the “real structures”, non idealised and non-perfect examples, look like and how they can be used. This initiative could possibly be linked to the field courses mentioned below, and to the Outcropedia. TecTask is presently investigating what could be the best medium for this kind of initiative.

TecTask has agreed to take on the task of updating and translation (into English) of the booklet “The changing Face of the African Continent” (ISBN 978-2-917310-01-4), which was published this year by the Commission for the Geological Map of the World, an IUGS affiliate (See Appendix C for cover of the French version.

### B Short courses in the field

Over the last decades a tendency has developed to reduce field contact time in favour of laboratory based research. This is unfortunate, since important geological data can be retrieved from geometries in rocks, which cannot be obtained by any laboratory based research. The basic research material of structural geology and tectonics are large-scale geometric structures that can only be studied in the field. It is therefore worrying that field-based teaching in structural geology and tectonics is rapidly decreasing in quality and quantity in most university courses. Reasons are decreased status of field-based work in favour of laboratory work on samples, mostly geochemical; urbanisation and the decreased tendency of individuals to work outside human habitations centres, and lack of funding for field research. Most of these effects are fashion-based and can be reversed when the need is felt for it, but the decrease in quantity and quality of field based teaching throughout the world is most worrying. TecTask has therefore decided that initiatives should be set up to at least increase the quality of field teaching, especially in the developing nations which have most of the complex Precambrian geology, but least of the training options.

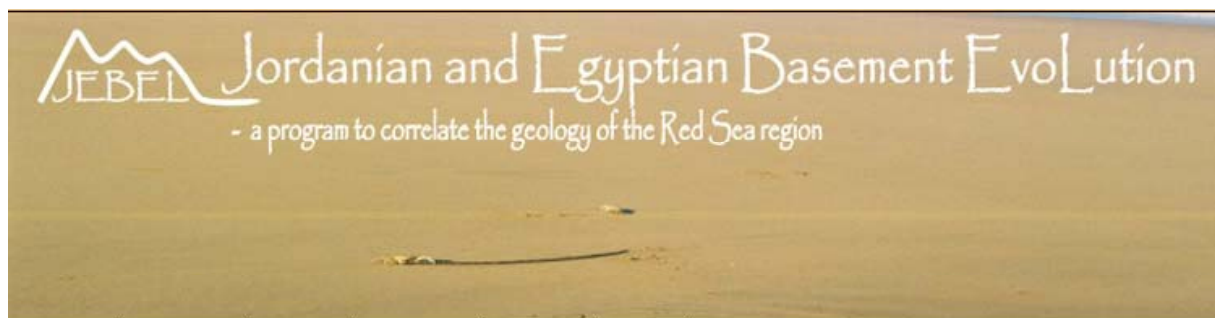
## Digital structural and Geophysical mapping

In March 2009 we will be running a field course for African geologists (company, survey and academic) in south-western Burkina Faso, which will focus on structural and geophysical field mapping, with a strong focus on digital mapping techniques (Jessell/Passchier)

## JEBEL

Jebel is a research program on Precambrian geology in NE Africa, but with a strong field training component. Aim is to train geologists from the Middle East to work in complex basement tectonics and to enable them to teach their acquired practical skills in the field to new generations of local geologist. The accent lies on complex structural geology and igneous petrology in neoproterozoic terrains. This kind of basement geology is common throughout Africa and the middle east, and in Jebel, university personnel is trained to interpret complex structures the right way, and carry this knowledge on to Universities in Africa and the Middle east.

See <http://www.jebel.geo.su.se/>



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Home

Sunday, 02 November 2008

### JEBEL – Arabic for 'mountain'

**J**EBEL focuses on the Neoproterozoic basement evolution of Jordan and Egypt, in order to better understand this critical period in Earth history. Some of the most important, rapid, and enigmatic changes in the history of our Earth's environment and biota occurred during the Neoproterozoic Era (1000-545 million years ago), including the appearance of hard-bodied organisms, dramatic extremes between hot and cold climate including major episodes of continental glaciation that may have covered the entire planet, marked increases in the oxygen concentration of the atmosphere and hydrosphere, and extreme variations in the isotopic composition of C and Sr in the Earth's oceans. Tectonic changes significantly influenced these biological and climatic variations. Understanding the causes of, and relationships between, these biological, climatic and tectonic changes in the Neoproterozoic requires a comprehensive and interdisciplinary approach. Consequently, tectonic, structural, geochronological, and geochemical investigations of the Neoproterozoic lithosphere are crucial for providing fresh insight into this period of Earth history.

The project runs for 3 years (2008-2011).

[Victoria Pease](#) is the P.I. for the project proposal. Please contact her for more information.

This site is maintained by V. Pease.

A similar initiative to Jebel is presently set up in Algeria, and will be implemented in 2009

#### Other TecTask field courses

Field course planning is underway to run two courses other courses in 2009: in Burkina Faso, March 2009 and in Cameroun, December 2009, led by Mark Jessell in collaboration with the Universities of Ouagadougou and Yaoundé and other TecTask members.

#### C - Short courses in the lab

Short courses in Microtectonics by Passchier took place in:  
February 2008 in Mainz, Germany

#### D – Digital mapping initiative

One of the reasons why field-based research in structural geology is declining is that the methods to retrieve data in the field have not evolved much since the 19<sup>th</sup> century; paper maps, field notebooks and analogue geological compass are the basis of structural fieldwork, and inhibit optimal collection and processing of data since all data collected have to be entered in databases and GIS programs by hand. Moreover, location and entering of data on paper maps and proving links with a paper field notebook are time consuming and prone to errors.

Since a number of years, the advance of pocket PC devices, small GPS receivers and digital compasses have created the possibility to digitise the process of field-based data collection. The challenge to bring geologists to accept new methods of data collection is that the new methods should be user friendly, save time, be less prone to errors than the previous paper based methods. The TecTask working group on digital mapping (Passchier, Jessell) has investigated presently used hardware for digital mapping and has selected the Trimble microcomputers as the most promising platform in this field. We are presently testing two sets of specially adapted GIS software for geological field mapping, ArcPad (ARC-platform) and DiscoverMobile (MapInfo- platform). A PhD position in digital mapping was set up with the universities of Mainz and Toulouse to kick-start this initiative, and funding was found to purchase 6 Trimble microcomputers for field training purposes.

We are preparing for field training courses in West Africa, Australia and the Middle East in 2009

An invited publication on digital field mapping is in preparation with the Journal of Geological Society of India, with the aim to set up training courses in India as well.

## **6      Activities of TecTask officers**

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### **Prof. Sudipta Sengupta activities:**

I have attended the 33rd International Geological Congress at Oslo, August 2008 and attended the following sessions. TecTask provided partial travel expenses to Oslo.

1. Presented keynote paper entitled "Evolution of the gneissic basement through superposed deformation and superposed migmatization around Jashidih, eastern India" to Session STT-01 (General Contribution to Structural Geology).
2. Co-Convener along with Profs. P. Bons (Germany) and Hemin Koyi (Sweden), of Session STT-08 (Numerical and Analogue modeling in Structural Geology), Presented a paper entitled "Fold interference in constriction induced by curved and faulted boundary conditions."
3. I have also attended the International Conference on Tectonics of the Indian Subcontinent, IIT, Mumbai, Golden Jubilee Celebration, March 2008 as a keynote speaker.

### **Prof. Ron Vernon activities:**

#### **Book**

Vernon, R.H. and Clarke, G.L. 2008: Principles of Metamorphism. Cambridge University Press, 446 pp.

#### **Papers**

Vernon, R.H., White, R.W. and Clarke, G.L. 2008: False metamorphic events inferred from misinterpretation of microstructural evidence and P-T data. *Journal of Metamorphic Geology*, 26, 437-449.

Vernon, R.H. and Paterson, S.R. 2008: Mesoscopic structures resulting from crystal accumulation and melt movement in granites. *Earth and Environmental Sciences Transactions of the Royal Society of Edinburgh (Wallace Pitcher Memorial Issue)*, 97, 369-381.

Paterson, S.R., Farris, D., Memeti, V., Miller, R.B., Pignotta, G.S., Vernon, R.H. and Zák, J. 2008: Is stopping a volumetrically significant pluton emplacement process?: Discussion. *Bulletin of the Geological Society of America*, 120, 1075-1079.

Vernon, R.H. and Paterson, S.R. 2008: How late are K-feldspar megacrysts in granites? *Lithos*, 104, 327-336.

Vernon, R.H. and Paterson, S.R. 2008: How extensive are subsolidus grain-shape changes in cooling granites? *Lithos*, in press.

Regenauer-Lieb, K., Hobbs, B.E., K., Ord, A., Gaede, O. and Vernon, R.H. 2008: Deformation with coupled chemical diffusion. *Physics of the Earth and Planetary Interiors*, (doi: 101016/j.pepi.2008.08.013)

### **Dr. Hermann Lebit activities:**

General Secretary of TecTask, including administration duties.

Representation of TecTask at the following meetings:

- 33 IGC in Oslo, Norway
- GSA Joint Assembly in Houston, Texas
- AGU 2008 San Francisco, USA

Consulting organization committee of YORSGET.

Papers:

Jensen, L., Lebit, H., Paterson, S., Miller, R. (2008). Coaxial refolding and inverted regional metamorphism in the Tonga Formation: Evidence for Cretaceous, accretionary thrust tectonics in the Cascades crystalline core, (in press)

Presentations:

Lebit, H., Thomas, J., Jensen, L. 2008. Passive Margin Fold and Thrust Belts. International Geological Congress, Oslo, Norway.

Lebit, H., Thomas, J., Jensen, L. 2008. Passive Margin Fold and Thrust Belts. GSA Joint Assembly, Houston, USA

Jensen, L., Lebit, H., Miller, R., Paterson, S., Vernon, R. 2008. Coaxial refolding and inverted regional metamorphism in the Tonga Formation: Cretaceous, accretionary thrust tectonics in the Cascades crystalline core. YORGETS, Oviedo, Spain

Jensen, L., Lebit, H., Miller, R., Paterson, S., Vernon, R. 2008. Coaxial refolding and inverted regional metamorphism in the Tonga Formation: Cretaceous, accretionary thrust tectonics in the Cascades crystalline core. AGU, San Francisco, USA

## 7 Budget

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### 2008 Expenditure

Euro 500.00	travel support for Sudipta Senguta
Euro 1000.00	sponsorship for Yorsget conference, Spain
Euro 1000.00	Outcropedia, expenses for IT and data input
Euro 1000.00	TecTask web site, server, fees etc.
<u>Euro 126.34</u>	<u>Account and transaction fees</u>
Euro 3626.34	total

### Funding request for 2009

As in 2008, we request a contribution of 5000 €\* in support of TecTask's activities.

This includes:

- €1000 that will be spent on updating and translating into English the new CCGM/CGMW booklet on the geodynamics of Africa.
- €1000 x 2 for course development costs (the digital mapping, and a field course in Cameroun)

\* TecTask's accounting is in Euro with a constantly appreciating exchange rate relative to US\$.