



Participant Profile

for the
Turkish-German Strategy Workshop 2006
TÜBITAK Marmara Research Center,
Istanbul- Gebze Turkey
13 – 15 December 2006



International Bureau (IB)
of the Federal Ministry of
Education and Research
(BMBF)

1. Contact details and personal information

Name:	Dr. Mann	Phone:	++49/2461/61-4187
Role/function¹:	Working Group Leader	Fax:	-2484
Institution:	Forschungszentrum Jülich GmbH	E-Mail:	u.mann@fz-juelich.de
Department:	Institute for Chemistry and Dynamics of the Geosphere, ICG-5: Sedimentary Systems	Website:	http://www.fz-juelich.de/icg/icg-v/
Address:	see below	Organisation type²:	Research Institution
Postcode and City:	D-52425 Jülich		

¹ **Role/function** e.g. working group leader, managing director, postdoc, PhD etc.

² **Organisation type** e.g. university, research institution, small and medium enterprise (SME), industry etc.

Working Group:	<input type="checkbox"/> 1 Material Technologies <input type="checkbox"/> 2 Biotechnology, Genomics and Food <input type="checkbox"/> 3 Energy <input type="checkbox"/> 4 Information and Communication Technologies <input checked="" type="checkbox"/> 5 Environmental Protection, Climate Change and Sustainable Development
Areas of activity:	<input checked="" type="checkbox"/> research <input type="checkbox"/> training <input type="checkbox"/> technology development <input type="checkbox"/> dissemination <input type="checkbox"/> demonstration <input type="checkbox"/> other:
Keywords characterising your area of research:	Please choose the appropriate key words (max. 5) from the following list: http://www.cordis.lu/fp6/keywords Biogeochemistry, Carbon Cycle, Climate Variability, Ecosystems, Paleoclimate (Climate Change)
Expertise, technologies and infrastructures available in your institution:	Research activities / expertise: Paleoclimate; understanding and quantification of carbon cycling; correlation of environment, bioproductivity and climate; biogeochemistry; global geobiodynamics; molecular ecology. Methods: Elemental analyses, microscopy, organic matter enrichment, GC, GCMS, Pyrolysis-GCMS, stable carbon and oxygen isotopes, time series analyses, Key technologies: Selected time windows of geological archives and recent comparisons Infrastructures: All type of infrastructure like computer centre, library, graphics etc. including complete technical and administrative support (for comparison see webpage) Key publications: Buggisch, W. and Mann, U. (2004) Carbon isotope stratigraphy of Lochkovian to Eifelian limestones from the Devonian of central and southern Europe. <i>Int. Journ. of Earth Sciences</i> , 93, 521-541. Dutta, S., Greenwood, P., Brocke, R., Schaefer, R.G. and Mann, U. (2006) New insights into the relationship between Tasmanites and tricyclic terpenoids. <i>Org. Geochem.</i> 37, 117-127. Kranendonck, O. (2004) Geo- and biodynamic evolution during Late Silurian/Early Devonian time (Hazro area, SE Turkey). <i>Schriften des Forschungszentrums Jülich, Reihe Environment</i> , vol. 49, 268p. Lücke, A., Brauer, A. (2004) Biogeochemical and micro-facial fingerprints of ecosystem response to rapid Late Glacial climatic changes in varved sediments of Lake Meerfelder Maar (Germany). - <i>Palaeogeography Palaeoclimatology Palaeoecology</i> , 211, 139 – 155. Prasad, S., Vos, H., Negendank, J.F.W., Waldmann, N., Goldstein, S.L., Stein, M. (2004) Evidence from Lake Lisan of solar influence on decadal- to centennial-scale climate variability during marine oxygen isotope stage 2. - <i>Geology</i> , 32, 7, 581 – 584. Moschen, R. Lücke, A., Schleser, G.H. (2005) Sensitivity of biogenic silica oxygen isotopes to changes in surface water temperature and paleoclimatology. - <i>Geophysical Research Letters</i> , 32 (2005), L07708 Treydte, K.S., Schleser, G.H., Helle, G., Winiger, M., Frank, D., Haug, G., Esper, J.: Twentieth century as the wettest period in northern Pakistan over the past millennium. - <i>Nature</i> (accepted).



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2. Past and present research collaborations

Are you familiar
with the European
Framework
Programme?

Yes

No

- with Framework Programme 5
- with Framework Programme 6
- with Framework Programme 7

EU-projects you are
involved in:
Past projects

**Programme title / contract number / title / acronym / your function
(coordinator / partner / contractor)**

Present projects

Other international
collaborations:

- ICGP 499: Devonian land-sea interaction (UNESCO, IUGS): worldwide
- Bioproductivity during early land plant colonisation (DFG, DAAD, Chinese National Science Foundation): China, Czech Republic, Turkey (Istanbul and Hazro area), Morocco, Poland, Ukraine, USA
- DEVEC (BMBF, TÜBITAK): Turkey-Germany

Name(s) and
contact details of
potential partners:

If you would like to suggest the participation of particular partners from the partner country based on existing contacts or collaboration experience, you are welcome to indicate their names and contact details below:

Prof. Dr. Sedat Inan, EMSI Institute at TÜBITAK- MAM, Gebze, KOCAELI

3. Presentation at the Workshop

I will give a presentation at the workshop (approx. 10 min.) to present my institution, my expertise, and my collaboration interests. The contents of my presentations is summarised below (max. 1 page).

Climate Dynamics and Biogeochemistry

The presentation includes examples for the understanding and quantification of individual aspects of carbon cycling, climate dynamics, individual proxies, paleoclimate and time series analyses.

In detail, the application of individual proxies based on different types of leaf waxes from individual plants and various palynomorphs are shown. Furthermore, selected case histories from individual tree ring studies as well as of selected time windows of geological archives (marine and terrestrial) demonstrate the deduction of climate variability and high bioproductivity. Finally an example of a time series analysis will be presented.

I agree with the publication of my data on the Workshop website!

PLEASE FILL IN THIS FORM UNTIL 22 SEPT. 2006 AND RETURN IT TO:

Internationales Buero des BMBF
s.krummacher@fz-juelich.de;
Christian.schache@dlr.de

TÜBITAK-Marmara Research Center
Sunullah.Ozbek@mam.gov.tr;
Artac.Turker@mam.gov.tr