



# Participant Profile

for the  
**Turkish-German Strategy Workshop 2006**  
**TÜBİTAK 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

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<b>Institution:</b>	TUM	<b>E-Mail:</b>	<a href="mailto:schramm@wzw.tum.de">schramm@wzw.tum.de</a>
<b>Department:</b>	Dept. for Basic Biosciences	<b>Website:</b>	<a href="http://www.wzw.tum.de/~schramm/">http://www.wzw.tum.de/~schramm/</a>
<b>Address:</b>	Weihstephaner Steig 3	<b>Organisation type<sup>2</sup>:</b>	University
<b>Postcode and City:</b>	85350 Freising		

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

<sup>2</sup> **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



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**Areas of activity:**

- |   |  |
|---|--|
| <input checked="" type="checkbox"/> research    | <input checked="" 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>

Diagnostics, Environmental Hygiene, Endocrinology, Risk Assessment, Environmental Science, Ecotoxicology

**Expertise, technologies and infrastructures available in your institution:**

**Research activities / expertise:** Ecotoxicology and environmental trace analysis

**Methods:**

Toxicity testing will cells and organisms  
Photochemistry  
Thermochemistry  
Environmental Monitoring of POPs in Air, Water, Soil, Biota, Anthroposphere

**Key technologies:**

Organic trace analysis	HRGC-LRMS/HRMS HPLC-DAD/UV/
fluorescence/EcD	Cap-LC/DAD-UV-EcD Nano-UPLC-Q-TOF-MS FFF Protocols for PBT-like compounds
Thermal characterisation furnaces	Laboratory and small scale
chamber	Isokinetic emission sampling Aerosol contamination
Biological analysis system; algae,	ELISA, dioxin equivalents, Effects on the endocrine  Toxicity tests on fish, daphnia,  nematodes, protozoa, Microtox/Lumistox. Complex matrices such as soils, sewage sludge, compost, etc. Bioactivation protocols
Sampling (indoor,	Soils, sediments, water, air  immissions, emissions), biota,



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human samples

## Infrastructures:

SPECIAL LABORATORIES

Dioxin laboratory (EN 17025)

Iso-kinetic Emission Sampling (Listed body for official measurements)

Ultra-trace laboratories and benches

Cultivation facilities for model organisms (Protozoa, Daphnia, Algae, Nematodes, Fish)

Exposure facility for *Danio rerio*

Photochemistry

Radioisotopes

S1 laboratory

**Key publications:** 2003-2006

**2003**

252. Chen J.W., Ping Yang, S. Chen, X. Quan, X. Yuan, K. -W. Schramm, A. Kettrup: **Quantitative structure-property relationships for vapor pressures of polybrominated diphenyl ethers.** SAR QSAR Environ. Res., 14(2):97-111 (2003)

253. Chen J.W., Xingya Xue, Karl-Werner Schramm, Xie Quan, Fenglin Yang, Antonius Kettrup: Quantitative structure-property relationships for octanol-air partition coefficients of polychlorinated naphthalenes, chlorobenzenes and p,p'-DDT. Computational Biology and Chemistry, 27(3): 165-171 (2003)

254. Chen J.W., Tom Harner, K. -W. Schramm, X. Quan, X. Y. Xue, W. Z. Wu, A. Kettrup: **Quantitative relationships between molecular structures, environmental temperatures and octanol-air partition coefficients of polychlorinated biphenyls.** Computational Biology and Chemistry, 27(3): 405-421 (2003)

255. Chen J.W., Tom Harner, Ping Yang, X. Quan, S. Chen, K. -W. Schramm, A. Kettrup: **Quantitative predictive models for octanol-air partition coefficients of polybrominated diphenyl ethers at different temperatures.** Chemosphere, 51(7): 577 – 584 (2003)

256. Hense, B.A., Jüttner, I., Welzl, G., Severin, G.F., Pfister, G., Behechti, A., Schramm, K.-W.: Effects of **4-Nonylphenol on Phytoplankton and Periphyton in Aquatic Microcosms.** Environ. Toxicol. Chem. 22, 2727-2732 (2003)

257. Jaser, W., Severin, G., Jütting, U., Jüttner, I.\*, Schramm, K.-W.,



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Kettrup, A.: **Effects of 17 $\alpha$ -ethinylestradiol on the reproduction of the cladoceran species *Ceriodaphnia reticulata* and *Sida crystallina*.** Environment International 28, 633-638 (2003)

258. Lalah, J.O., Schramm, K.-W., Severin, G.F., Lenoir, D., Henkelmann, B., Behechti, A., Guenther, K., Kettrup, A.: **In vivo metabolism and organ distribution of a branched <sup>14</sup>C-nonylphenol isomer in pond snails, *Lymnea stagnalis* L.**, Aquat. Toxicol. 62, 305-319 (2003)

259. Lalah, J.O., Behechti, A., Severin, G.F., Lenoir, D., Günther, K., Kettrup, A., Schramm, K.-W.: **The Bioaccumulation and Fate of a Branched <sup>14</sup>C-p-nonylphenol Isomer in *Lymnea stagnalis*.** Environ. Toxicol. Chem. 22 1428-1436 (2003)

260. Niu J., Jingwen Chen, B. Henkelmann, Xie Quan, Fenglin Yang, A. Kettrup, K.-W. Schramm: **Photodegradation of PCDD/Fs absorbed on spruce (*Picea abies* (L) Karst.) needles under sunlight irradiation.** Chemosphere, 50(9): 1217-1225 (2003)

261. Niu J., Jingwen Chen, Dieter Martens, Xie Quan, Fenglin Yang, Antonius Kettrup, Karl-Werner Schramm, 2003. **Photolysis of polycyclic aromatic hydrocarbons absorbed to spruce (*Picea abies* (L.) Karst.) needles under sunlight irradiation.** Environ. Pollut., 123(1): 39-45 (2003)

262. Pfister, G., Jüttner, I.\*, Severin, G., Schramm, K.-W., Kettrup, A.: **Controlled release experiments with nonylphenol in aquatic microcosms.** Environmental Toxicology and Chemistry 22, 182-188 (2003)

263. Severin, G.F., Welzl, G., Jüttner, I., Pfister, G., Schramm, K.-W.: **Effects of Nonylphenol on Zooplankton in Aquatic Microcosms.** Environ. Toxicol. Chem. 22, 2733-2738 (2003)

264. Walcher, S. Altschuh, J., Schramm, K.-W., Mayer, S.: **Estimates in deterministic fate modelling of environmental chemicals.** Environ. Modelling & Software 18, 929-936 (2003)

265. Wang, J., Wu, W., Henkelmann, B., You, L., Kettrup, A., Schramm, K.-W.: **Presence of estrogenic activity from emission of fossil fuel combustion as detected by a recombinant yeast assay.** Atmos. Environ. 37, 3225-3235 (2003)

266. Ping Yang, Jingwen Chen, Yazhi Zhao, Shuo Chen, Xing Yuan, Xie Quan, K. -W. Schramm, A. Kettrup: **QSPR models for physicochemical properties of polychlorinated diphenyl ethers.** Sci. Total Environ. 305(1-3): 65-76 (2003)



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2004

267. Chahbane, N., Schramm, K.-W., Kettrup, A.: **An in vitro model for screening estrogen activity of environmental samples after metabolism.** Organohalogen Compounds 66, 711-714 (2004)
268. Chen, J., Harner, T., Ding, G., Quan, X., Schramm, K.-W., Kettrup, A.: **Universal predictive models on octanol-air partition coefficients at different temperatures for persistent organic pollutants.** Environmental Toxicology and Chemistry 23, 2309-2317 (2004)
269. Geyer, H., Schramm, K.-W., Darnerud, P.O., Aune, M., Feicht, E.A., Fried, K.W., Henkelmann, B., Lenoir, D., Schmid, P., McDonald, T.A.: **Terminal elimination half-lives of the brominated flame retardants TBBPA, HBCD, and lower brominated PBDEs in humans.** Organohalogen Compounds 66, 3867-3872 (2004)
270. Hollosi, L., Kettrup, A., Schramm, K.-W.: **MMSPE-RP-HPLC method for the simultaneous determination of methimazole and selected metabolites in fish homogenates.** J. Pharmaceutical Biomedical Analysis 36, 921-924 (2004)
271. Höss, S.; Traunspurger, W., Severin, G., Jüttner, I., Pfister, G., Schramm, K.-W.: **Influence of 4-Nonylphenol on the structure of nematode communities in freshwater microcosms.** Environ. Toxicol. Chem 23, 1268-1275 (2004)
272. Huang, X., Chen, J., Gao, L., Ding, G., Zhao, Y., Schramm, K.-W.: **Data evaluations and quantitative predictive models for vapor pressures of polycyclic aromatic hydrocarbons at different temperatures.** SAR and QSAR in Environmental Research 15, 115-125 (2004)
273. Jäger, R., Schneider, A.M., Behrens, P., Henkelmann, B., Schramm, K.-W., Lenoir, D.: **Selective adsorption of polychlorinated dibenzo-*p*-dioxins and dibenzofurans by the zeolites UTD-1, SSZ-24, and ITQ-4.** Chem. Eur. J. 10, 247-256 (2004)
274. Niu, J., Chen, J., Martens, D., Henkelmann, B., Quan, X., Yang, F., Seidlitz, H.K., Schramm, K.-W.: **The role of UV-B on the degradation of PCDD/Fs and PAHs sorbed on surfaces of spruce (*Picea abies* (L.) Karst.) needles.** Science of the Total Environment 322, 231-241 (2004)
275. Roots, O., Henkelmann, B., Schramm, K.-W.: **Concentrations of polychlorinated dibenzo-*p*-dioxins and polychlorinated dibenzofurans in soil in the vicinity of a landfill.** Chemosphere 57, 337-342 (2004)
276. Pandelova, M., Lenoir, D., Kettrup, A., Schramm, K.-W.: **Primary**



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**measures for reduction of PCDD/F in co-combustion of lignite coal and waste: Effect of various inhibitors.** In: The First International Symposium on the Management of Liquid and Solid Residues (Malisore). University Hassan II, Mohammedia, 48-52 (2004)

277. Pandelova, M., Péronnet, V., Kettrup, A., Schramm, K.-W.: **Preparation steps for accreditation in the field of PCDD/F emission sampling in a research facility.** In: Proceedings of the 6<sup>th</sup> International Conference on Emission Monitoring (Eds.: P. Dilara, D. Cipriano). European Commission, Joint Research Centre, 4 Seiten (2004)

278. Pandelova, M., Lenoir, D., Kettrup, A., Schramm, K.-W.: **Correlation between PCDD/F, PCB and PCIBz in coal/waste combustion. Influence of various inhibitors.** Organohalogen Compounds 66, 982-986 (2004)

279. Péronnet, V., Pandelova, M., Kettrup, A., Schramm, K.-W.: **Implementation of a quality system in a research facility - accreditation in the field of PCDD/F emission sampling.** In: Proceedings of the International Conference "QA/QC in the Field of Emission and Air Quality Measurements: Harmonisation, Standardisation and Accreditation" (Eds.: A. Borowiak et al.). Joint Research Centre, Institute for Environment and Sustainability, Ispra, 238-242 (2004)

280. Rießbeck, C., Henkelmann, B., Schramm, K.-W.: **Air monitoring of PCB with Gerstel-Twister.** Organohalogen Compounds 66, 297-301 (2004)

281. Roots, O.\*, Simm, M.\*, Järv, L.\*, Henkelmann, B., Schramm, K.-W.: **Levels of PCDD/Fs and "dioxin like" PCBs in the pike-perch (*Sander lucioperca* (L)) from the north-eastern part of the Baltic Sea** In: SECOTOX - The 2<sup>nd</sup> Asian International Conference on Ecotoxicology and Environmental Safety. Commission on Higher Education, Ministry of Education, Bangkok, Thailand, 63-65 (2004)

282. Roots, O., Henkelmann, B., Schramm, K.-W.: **Levels of PCDDs and PCDFs in soil in the vicinity of the landfill.** Organohalogen Compounds 66, 1314-1318 (2004)

283. Roots, O., Henkelmann, B., Schramm, K.-W.: **Concentrations of polychlorinated dibenzo-p-dioxins and dibenzofurans in soil in the vicinity of the landfill.** Chemosphere 57, 337-342 (2004)

284. Roots, O., Simm, M., Järv, L., Henkelmann, B., Schramm, K.-W.: **Levels of PCDD/Fs and "dioxin like" PCBs in the perch from the north-eastern part of the Baltic Sea.** Organohalogen Compounds 66, 1691-1694 (2004)

285. Schramm, K.-W., Kettrup, A.: **A simple cleanup procedure and bioassay for determining TCDD - toxicity equivalents of**



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**environmental samples.** In: Solid Waste: Assessment, Monitoring and Remediation (Eds.: I. Twardowska et al.). Oxford: Elsevier, Waste Management Series 4, 539-550 (2004)

286. Schramm, K.-W., Kirchner, M.: **MONARPOP - Monitoring network in the alpine region for POPs.** GAIA 13, 296-297 (2004)

287. Schulz, A., Stocker, A., Hollosi, L., Schramm, K.-W.: **Tra- and TSH-mRNA levels after temporal exposition with methimazole in zebrafish, *Danio rerio*.** Organohalogen Compounds 66, 3052-3056 (2004)

288. Shen, H., Main, K., Kaleva, M., Schmidt, M.I., Boisen, K., Chellakooty, M., Damgaard, I., Virtanen, H., Haavisto, A.-M., Skakkebaek, N., Toppan, J., Schramm, K.-W.: **Comparison hexachlorobenzene residues in placentas from Finland and Denmark (1997-2001).** Organohalogen Compounds 66, 2825-2828 (2004)

289. Shen, H., Main, K., Kaleva, M., Schmidt, M.I., Boisen, K., Chellakooty, M., Damgaard, I., Virtanen, H., Haavisto, A.-M., Skakkebaek, N., Toppan, J., Schramm, K.-W.: **The relationship between enantiomeric fraction and concentration of a-hexachlorocyclohexane in human placentas.** Organohalogen Compounds 66, 437-439 (2004)

290. Twardowska, I., Schramm, K.-W., Berg, K.: **Sewage sludge.** In: Solid Waste: Assessment, Monitoring and Remediation (Eds.: I. Twardowska et al.). Oxford: Elsevier, Waste Management Series 4, 239-295 (2004)

291. Vetter, W., Hahn, M.E., Tomy, G., Ruppe, S., Vatter, S., Chahbane, N., Lenoir, D., Schramm, K.-W., Scherer, G.: **Biological activity and physicochemical parameters of marine halogenated natural products 2,3,3',4,4',5,5'-heptachloro-1'-methyl-1,2'-bipyrrole and 2,4,6-tribromoanisole.** Arch. Environ. Contam. Toxicol. 48, 1-9 (2004)

292. Wang, J., Xie, P., Xu, Y., Kettrup, A., Schramm, K.-W.: **Differing estrogen activities in the organic phase of air particulate matter collected during sunny and foggy weather in a Chinese city detected by a recombinant yeast bioassay.** Atmospheric Environment 38, 6157-6166 (2004)

## 2005

293. Crutch, C.R., Lebofsky, M., Schramm, K.-W., Terranova, P.F., Rozman, K. K.: **2,3,7,8-Tetrachlorodibenzo-p-Dioxin (TCDD) and 1,2,3,4,7,8-Hexachlorodibenzo-p-Dioxin (HxCDD) Alter Body Weight by Decreasing Insulin-Like Growth Factor I (IGF-I) Signaling,** Toxicological Sciences 84, 560-571 (2005)

294. Hense, B.A., Severin, G.F., Pfister, G., Welzl, G., Jaser, W.,



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- Schramm, K.-W.: **Effects of Anthropogenic Estrogens Nonylphenol and 17 $\alpha$ -Ethinylestradiol in Aquatic Model Ecosystems.** Acta hydrochim. hydrobiol. 33, 27-37 (2005)
295. Hense, B.A., Welzl, G., Severin, G.F., Schramm, K.-W.: **Nonylphenol induced changes in trophic web structure of plankton analysed by multivariate statistical approaches.** Aquatic Toxicol. 73, 190-209 (2005)
296. Kirchner, M., Henkelmann, B., Jakobi, G., Kotalik, J., Fischer, N., Oxyinos, K., Schramm, K.-W.: **Concentration measurements of PCDD/F in air and spruce needles in the Bavarian Forest and Bohemian Forest (Sumava): First results.** Econtox. Environ Safety, in press (2005)
297. Naderi-Kalai, B., Allameh, A., Rasaei, M.J., Bach, H.-J., Behechti, A., Doods, K., Kettrup, A., Schramm, K.-W.: **Suppressive effects of caraway (*Carum carvi*) extracts on 2,3,7,8-tetrachloro-dibenzo-*p*-dioxin-dependent gene expression of cytochrome P450 1A1 in the rat H4IIE cells.** Toxicology in Vitro 19, 373-377 (2005)
298. Pandelova, M.E., Lenoir, D., Kettrup, A., Schramm, K.-W.: **Primary Measures for Reduction of PCDD/F in Co-combustion of Lignite Coal and Waste: Effect of Various Inhibitors.** Environ. Sci. Technol. 29, 3345-3350 (2005)
299. Sánchez-Hervás, J.M., Armesto, E. Ruiz-Martínez, J. Otero-Ruiz, M. Pandelova, Schramm K.-W.: **PCDD/PCDF emissions from co-combustion of coal and PVC in a bubbling fluidised bed boiler.** Fuel 84, 2149-2157 (2005)
300. Schramm, K.-W., Henkelmann, B., Peschke, D., Martens, D.: **Quality criteria of the isotope dilution method for the determination of polycyclic aromatic hydrocarbons, petroleum-derived hydrocarbons and phenol in leachate of large-scale lysimeter experiments.** Accred. Qual. Assur. 10, 229-234 (2005)
301. Schramm, K.-W., Lenoir, D.: **Verfahren zur Dioxinminderung bei Verbrennungsprozessen.** GIT 2, 94-95 (2005)
302. Shen, H., Main, K.M., Kaleva, M., Virtanen, H., Haavisto, A.-M., Skakkebaek, N.E., Toppari, J., Schramm, K.-W.: **Prenatal organochlorine pesticides in placentas from Finland: exposure of male infants born during 1997-2001.** Placenta 26, 512-514 (2005)
303. Wang, J., Xie, P., Kettrup, A., Schramm, K.-W.: **Evaluation of soot particles of biomass fuels with endocrine-modulating activity in yeast-based bioassay.** Anal. Bioanal. Chem. 381, 1609-1618 (2005)
304. Yang, F.-X., Xu, Y., Pfister, G., Henkelmann, B., Schramm, K.-



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**W.: Nonylphenol, bisphenol-A and DDTs in Lake Donghu, China. FEB**  
14, 173-180 (2005)

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305. Pandelova, M.E., Lenoir, D., Schramm, K.-W.: **Correlation between PCDD/F, PCB, and PCBz in coal/waste combustion: Influence of various inhibitors.** Chemosphere 62, 1196-1205 (2006)

306. Shen, H., Virtanen, H., Main, K.M., Kaleva, M., Andersson, A.M., Skakkebaek, N.E., Toppari, J., Schramm, K.-W.: **Enantiomeric ratios as an indicator of exposure processes for persistent pollutants in human placentas.** Chemosphere 62, 512-514 (2006)



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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:

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

Chemikalien als Verunreinigung in der Nahrungskette: Netzwerk zur Forschung,  
Risikoabschätzung, Ausbildung und Information (CASCADE)  
INTARESE  
Monitoring Network in the Alpine Region for Persistent and other Organic  
Pollutants (MONARPOP)  
Metrology in Support to Precautionary Sciences and Sustainable Development  
Policies (METROPOLIS)  
Exposure – outcome relationships in male urogenital malformations with special  
reference to endocrine disrupters (EXPORED)  
Minimierung von Dioxinen und Furanen bei der Verbrennung von Kohle in  
Energieanlagen (ECSC)  
Risk Assessment of Environmental Dioxins: Coupling Epidemiology and Animal  
Toxicity Studies to Improve Risk Assessment (TURKU)  
Examination of Incineration Behavior of Solid Wastes and Study of Gas  
Emissions and Solid Residues Characteristics (SOLID)  
Investigation and Risk Assessment of Polychlorinated Organic Compounds  
(PCOCs) in Drinking Water Resources of Developing Countries

**Past projects**

**PCOCs, SOLID, TURKU, ECSC, METROPOLIS**

**Present projects**

**MONARPOP, INTARESE, CASCADE**

**Other international  
collaborations:**

Bovee, Toine, RIKILT, Wageningen, The Netherlands  
Hoogenboom, Ron, University Wageningen, The Netherlands  
Brix, Rikke, IIQAB, CSIC, Barcelona, Spain  
Dick, Tuisikon, Centro de Ecologia, Universidade Federal do Rio Grande do Sul, Porto  
Alegre, Brazil  
Delaney, Tatiana, St. Joseph's College, NYC, USA  
Gänzle, Michael, University of Alberta, Department of Agricultural, Food and Nutritional  
Science, Edmonton, Canada  
Van der Ven, Leo T., Laboratory for Pathology and Immunobiology, National Institute of  
Public Health and the Environment RIVM, Bilthoven, The Netherlands  
Eijsackers, Herman Alterra, NL-6700 AA Wageningen, THE NETHERLANDS  
Riszdard Laskowski, Riszdard, Jagiellonian University, Institute for Environmental Biology,  
Krakow, POLAND  
Heiki Setala, University of Jyvaskyla, , Finland  
Bengtsson, Jan, EOM, University of Uppsala, Pob 7072 Uppsala, Sweden  
Loibner, Andreas, Contaminated Land Management, IFA-Tulln / Environmental  
Biotechnology, Tulln, AUSTRIA  
Nugegoda, Dayanthi, RMIT University, Melbourne, Australia  
Xu, Ying, CAS, Institute of Hydrobiology, Wuhan, China  
Wu, Wenzhong,, Dalian University of Technology, Dalian, China  
Skakkebaek, Nils, University Hospital, Kopenhagen, Denmark  
Roots, Ott, EPA, Tallinn, Estonia  
Dulio, Valeria, Ineris, Verneuil-en-Halatte, France  
Sakellaropoulos, George P., Aristotle University, Thessaloniki, Greece  
Lalah, Josef, Maseno University College, Maseno, Kenya



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**Name(s) and  
contact details of  
potential partners:**

Laudet, Vincent, Ecole Normale Supérieure de Lyon, France  
Ekelund, Flemming, Zoology, University Copenhagen, Denmark  
Souabi, Salah, Université des Sciences, Mohammadia, Morocco  
El Azzouzi, Mohammed, University of Rabat, Morocco  
Kallenborn, Roland, Norwegian Inst. for Air Research, Oslo, Norway  
Okay, Oya, Marine Res. Dept., University of Istanbul, Turkey  
Cok, Ismet, Pharmacy, Dept. Toxicology, Gazi University, Ankara, Turkey  
Rozman, Karl, KUMC, Kansas, USA  
Collins, Terry, Carnegie Mellon University, Pittsburgh, USA  
Theodorakis, Christopher, Texas Technical University, Lubbock, USA  
Chen, Jingwen, Dalian University of Technology, Dept. of Environmental Science and  
Technology, Dalian, China  
Tiris, Mustafa, Energy Systems and Environmental Research Institute, Marmara Research  
Center, Turkey  
Pongratz, Ingemar, Karolinska Institute, Stockholm, Sweden

**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:**

Assoc. Prof. Dr. Oya S. OKAY  
Istanbul Technical University  
Faculty of Naval Architecture and Ocean Engineering  
34469 Maslak/Istanbul/TURKEY  
Tel: 00 90 212 285 64 07 / 64 58  
Fax: 00 90 212 285 64 54

### 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).

To be presented by Prof. Oya OKAY

A brief overview about the recent research activities will be given.

The collaborations of the near past between Turkey and Prof Schramm will be briefly summarized

A short summary of a new FP7 proposal (PHARMED) 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:**

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