Fraunhofer-Gesellschaft

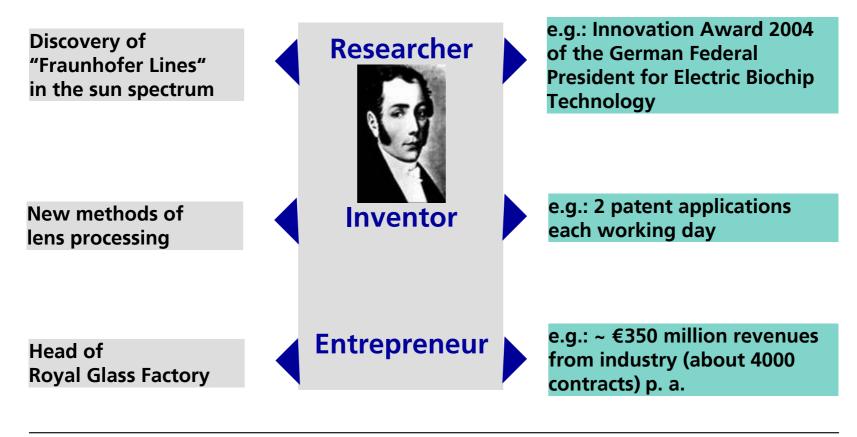
Partnerships for Innovation



ZV-A2/ Nov 04

Joseph von Fraunhofer (1787 - 1826)

The Fraunhofer-Gesellschaft (today)



ZV-A2/ May 05



Fraunhofer Gesellschaft

Fraunhofer Profile in 2007

- 56 Institutes
- 12 770 employees

about €1,2 billion research budget

7 Alliances

- Information and Communication Technology
- Life Sciences
- Materials and Components
- Microelectronics
- Production
- Surface Technology and Photonics
- Defense and Security



ZV-P2/Jan 07



Fraunhofer Gesellschaft

The Fraunhofer-Gesellschaft in Germany

56 Institutes at 40 locations

- Institutes
- Branches of Institutes, Research Institutions, Working Groups, Branch Labs and Application Centers





Fraunhofer Gesellschaft

Fraunhofer ITEM Hannover/Germany





Fraunhofer ITEM Institute of Toxicology and Experimental Medicine



Staff (2007)

73 scientists25 graduates78 technical staff29 laboratory assistants



Total Budget

17.1 million euro55% industry16% public projects29% basic funding





Business Areas of the Fraunhofer ITEM

- Drug Research, Medical Biotechnology and Molecular Medicine
- Clinical Allergy, Asthma and Inhalation Research
- Occupational, Environmental Toxicology and Consumer Protection
- Testing and Registration of Chemicals, Biocides and Pesticides













The Division Chemical Risk Assessment





Division Chemical Risk Assessment Head: Dr. Inge Mangelsdorf

- long-term experience in risk assessment (>15 a)
- at national and international level
- multidisciplinary team (with background in toxicology, ecotoxicology, chemistry, veterinary medicine)
- experimental experts in toxicology onsite





Membership in several advisory and working committees

- SCHER (Scientific Committee on Human and Environmental Risks)
- EFSA Scientific Committee (BMD working group)
- Indoor Air Commission of the Federal Agency of the Environment (UBA)
- Governmental Commission of Lower Saxony investigating the impact of REACH
- Working committee "Chemical Risk Assessment" of the German Chemical Society
- Working committee "Regulatory Toxicology" of the German Society of Toxicology





Improvement of risk assessment procedures based on (Q)SAR/databases

REPDOSE: database aimed at correlating organspecific effects after repeated dose- application with the structural and physicochemical properties (funded by CEFIC-LRI).

OSIRIS: development of **integrated testing strategies (ITS)** fit for REACH. Development of the database **Breath** on occupational exposure limits correlated to inhalation toxicity (funded by (EU-FP-6).









Endocrine Disruptors: Development of structureand risk-based methods to identify endocrine disrupting chemicals under REACH. Initiation of the database **FeDTEx** on reprotoxicity (funded by LRI Cefic).





Threshold of toxicological concern (TTC):

Evaluation of the current TTC concept developed by Munroe with the database on repeated dosetoxicity RepDose (funded by ECETOC, LRI)









Risk Assessment – Activities

Environmental Health Criteria Document on Transgenic Animal Mutagenicity Assays (EHC 233, for WHO) and on Dermal Absorption (EHC 235, for WHO)

"Workplace exposure from the use of biocidal products – Part 1: Inhalation and dermal exposure data for the spray application of liquid biocidal products" (funded by German Federal Institute for Occupational Safety and Health BAUA)



und Arbeitsmedizin

ITEM



"Environmental Health Criteria Documents" (EHC) and "Concise International Chemical Assessment Documents" (CICAD)

Reports for German Existing Chemicals Program (BUA)

EU Risk Assessment Reports for Sodium Perborate, o-Anisidine











Risk assessment for human health and environment within the scope of HERA (Human and Environmental Risk assessment on Ingredients of Household Cleaning Products)

IUCLID data sets and SIDS dossiers for the ICCA HPV-Initiative to be submitted to the OECD (esp. categories).

More than 300 IUCLID data sets for several clients





