

BEOBAL 3 Main INRNE Conceptual Pillars

- 1. System approach to Nuclear Science, Environment and Society
- 2. Long Term Development of Strategic Cooperation and Integration
- 3. Enhancement and Development of New Organisational Structures in European Context with Regional Accent



BEOBAL 1st Pillar and Methods

International Collaboration and Cooperation

Advan Metrol

Networking. International Collaboration and Integration

Reinforcement of BEO Centre **Research Capacities**

Human resources

Advanced Research Infrastructure

tommonoming

Advanced Methodology, **Technologies and Methods** Advanced Metrology

Observing and Complex Monitoring of Environment and Society

Science - Society

innouna marini

Management

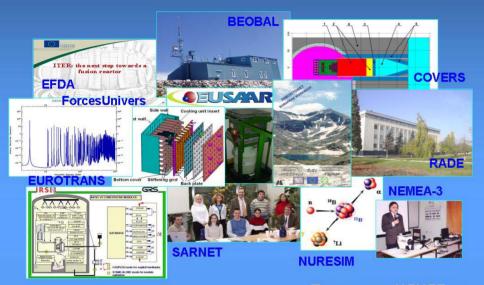
Quality Management System **Innovations** Business Activities

ISO 14000:1996 Nº357/0

Sustainable Environment







Проекти на ИЯИЯЕ по Шеста рамкова програма на ЕК и ЕВРАТОМ

INRNE Sixth Framework Programme of EC and EURATOM Projects

4-15 декември 2006

4-15 Dec 2006

Информационен център на Европейския съюз ул. "Московска" 9, София

Information Centre of the European Union 9, Moskovska St., Sofia Monday: 11 - 18h., Tuesday - Friday: 9 - 18h.

понеделник - 11-18 ч., вторник - петък, 9-18 ч.









Jordan Stamenov, Boyko Vachev, Natalia Janeva, Nikola Vasilev, Pavlin Grudev, Krasimira Ilieva, Mkulen Mitev, Jordanka Jordanova, Troyo Troev, Nikola Kolev, Maria Manolova, Emil Nissimov, INRNE, Sofia Ingrid Shikova, Maria Gerganova, Ventsislav Dimitrov, Diana Dimova, IC of the EU, Sofia



INRNE - JRC Conference - Informational Days joint research centre NUSES Nuclear Science UROPEAN COMMISSION for Sustainable Environment 19-22 Feb 2003 Fire otel Moscow, Hall Kiev Sofia, BULGARIA BULGARIAN NUCLEAR SOCIETY NATIONAL SCIENCE FUND **Programme Environmental Research** · Radionuclides, heavy metals and toxic elements transport · Air, Soil and Water quality con vol. · Global Change and Sustai able Development Nuclear Fuel, s .da gement and Safety Nuclear for usics na Safeguard Neul o he igations and Data Measurement Nuclea Medicine Harmonisation of measurements Information and Knowledge management International **Local Organising** Scientific Committee Committee Jordan Stamenov Roland Schenkel Boyko Vachev Klaus Lassmann Alexander Strezov Maria Betti Chavdar Stoyanov Peter Rullhusen Dancho Elenkov Jordan Stamenov Krassimira Ilieva **Public Lectures**

Metodi Guelev Natalia Janeva Petio Petkov

Bulgarian Nuclear Science and JRC for ERA Development

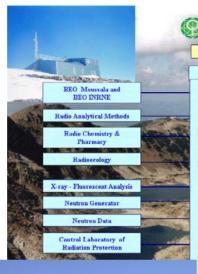
Organised in co-operation with and supported by Joint Research Centre of European Commission, Nuclear Regulation Agency of Bulgaria, Bulgarian Nuclear Society and NPP Kozloduy and supported by Ministry of Education and Science

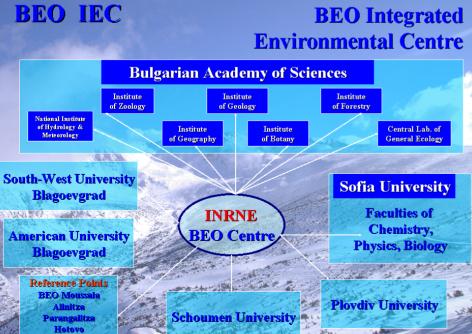
Institute for Nuclear research and Nuclear Energy (INRNE), Sofia, Bulgaria Joint Research Centre (JRC) - Directorate General, Science Strategy (DSS), Brussels, Belgium Institute for Energy (IE), Peten, Holland Institute for Environment and Sustainability (IES), Ispra, Italy Institute for Health and Consumer Protection (IHCP), Ispra, Italy Institute for Protection and Security of Citizen (IPSC), Ispra, Italy Institute for Prospective and Technological Studies (IPTS), Seville, Spain Institute for Reference Materials and Measurements (IRMM), Geel, Belgium Institute for Transuranium Elements (ITU), Karlsruhe, Germany

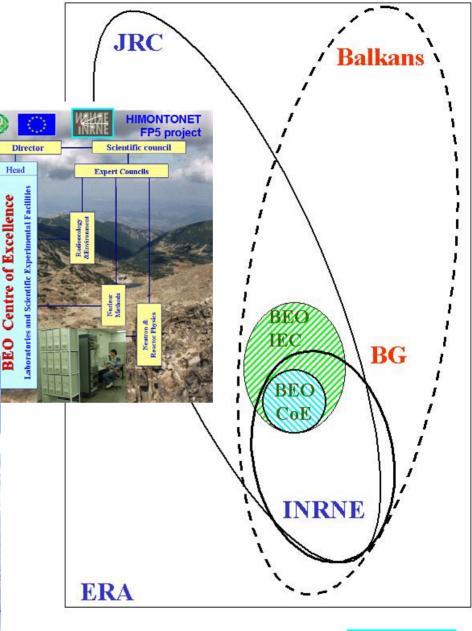




BEOBAL – 3rd Pillar







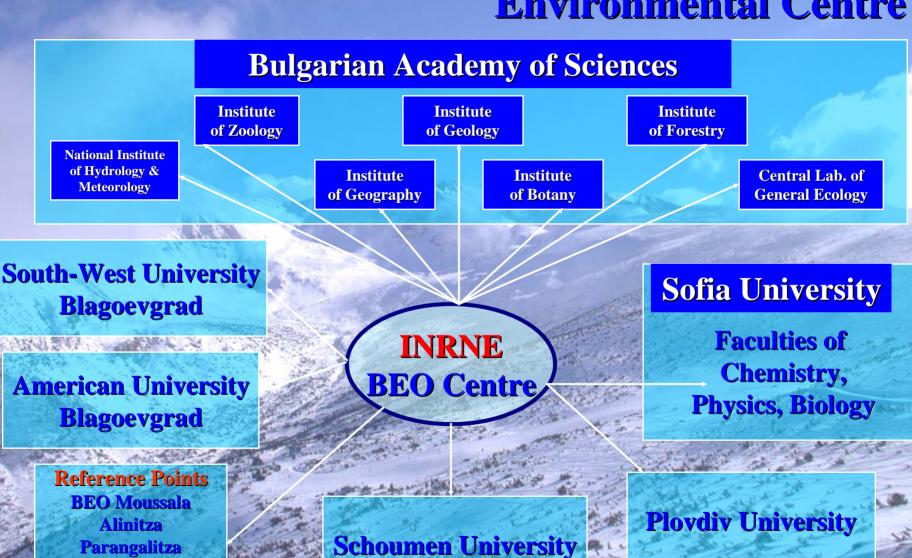


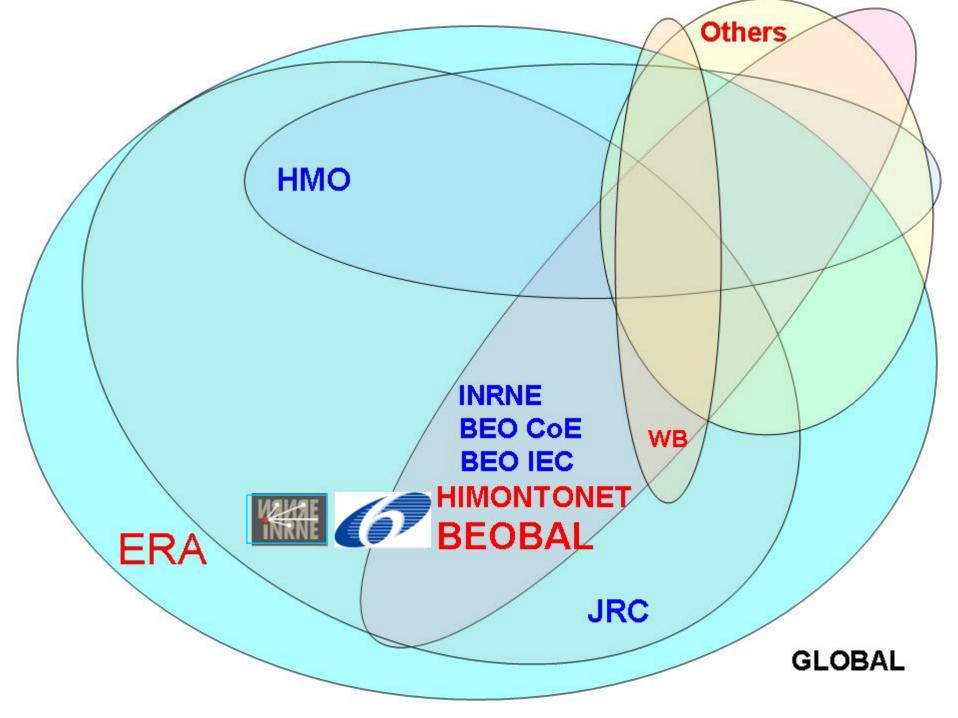
BEO IEC

Hotovo Kaliakra Chernomoretz



BEO Integrated Environmental Centre





Main Strategic and Operational Objectives and Expected Results of BEO CoE

1. Scientific: Climate change observing and research. Influence of cosmic factors on atmosphere processes. Complex environmental monitoring

BEO "Moussala" - GAW Regional Station

Twinning with some BEO CoE European partners teams Interhemispheral Laboratory – BEO and other HMO partners

2. Sustainable development

Mountain *Tourism and Environment*Water resources

Joint laboratories with BEO IEC partners

3. Technological and Innovation

Regional + European (International) Innovation Transfer

Development of Environmental Sound (Friendly)

Environmental Observing

<u>Telecommunications + Information (GRID) Technologies</u> <u>Mountain (Extreme) Renewable Energy Technologies</u>

BEO Centre of Excellence Advantages

- 1. Presence of basic Research infrastructure
- 2. Presence of basic Technical Infrastructure supporting Research infrastructure
- 3. National (Regional) and European importance
- 4. Presence (Participation in) National, Regional, European and World Networks
- 5. Organizational and Management structures BEO CoE, BEO IEC,
- **Q&E M ISO standards**
- 6. Sustainable development from 1993 OM2 project 1999 BEO Moussala renovation by BG funding 2002 1st CoE project, 2005 2nd CoE Project Series of International (national) and EU projects: OM2, HIMONTONET, NUSES, BEOBAL, EUSAAR, ACCENT
- 7. Advanced science communication strategy and practice
- 8. Institutional support and suitable International Environment
- 9. Existing of reserves for research potential improvement (human, organisational, technical, ...)
- 10. Flexible forms of partnership



What are some new challenges for BEO Centre of Excellence?



to improve its regional research capacity

by reinforcing S&T potential,

by supporting and mobilising the human and material resources,

by developing strategic partnerships (including twinning) with

well established research groups elsewhere in the Union,

by disseminating scientific information as well as the results of

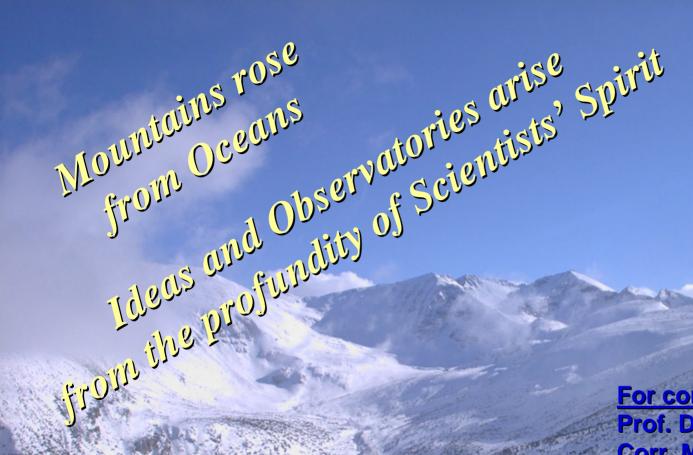
research,

by <u>facilitating communication between the centres having</u> similar scientific interest and

by improving its responses to socio-economic

needs of the country and improved economic

and social cohesion





For contacts

Prof. D.Sc. Jordan Stamenov, Corr. Memb. of BAS

jstamen@inrne.bas.bg

tel: (359 2) 9743 761

fax: (359 2) 975 36 19

Dr. Boyko Vachev vachev@inrne.bas.bg tel: (359 2) 974 63 10 fax: (359 2) 975 36 19

http://www.inrne.bas.bg http://www.beo.inrne.bas.bg http://beo-db.inrne.bas.bg