

# Workshop Program

**"Economic & Social Development of  
Inter Disciplinary Scientific Collaboration in ATh."**



# “Workshop on Economic & Social development of Inter Disciplinary Scientific Collaboration in AUTH”

26 & 27 November 2008, Room A31, Physics Department

Aristotle University of Thessaloniki

## Program

09:15	<b>REGISTRATION</b>	<b>Chair: N. Frangis, G. Lalazisis</b>
09:45	<b>WELCOME</b>	
	<b>Session 1: Interdisciplinarity in Under- &amp; Post Graduate Studies</b>	
10:00	<b>PHYSICS DEPARTMENT- AUTH &amp; 80 YEARS OF ACTIVITIES</b> Prof. S. Logothetidis, Chairman of Physics Dep.	
10:30	<b>ACADEMIC PROGRAM- INTERDISIPLINARITY</b> <b>Presentations from Chairmen from AUTH Departments</b> <ul style="list-style-type: none"> <li>- <b>Physics Dept.:</b> Assoc. Prof. N. Frangis – Prof. G. Lalazisis,</li> <li>- <b>Geology Dept.:</b> Prof. S. Pavlidis – Assoc. Prof. K. Papazachos</li> <li>- <b>Mathematics Dept.:</b> Prof. I. Antoniou</li> <li>- <b>Chemistry Dept. :</b> Assoc. Prof. A. Papoutsis</li> <li>- <b>Electrical &amp; Computer Engineering Dept.:</b> Prof. N. Margaris</li> <li>- <b>Biology Dept.:</b> Prof. M. Arsenakis</li> <li>- <b>Mathematics, Physics &amp; Computational Sciences Dept. of Engineering School :</b> Prof. G. Kourouklis</li> <li>- <b>Medical Dept.:</b> Prof. N. Dompros</li> </ul> <b>CHAIR- DISCUSSION:</b> N. Frangis, S. Pavlidis	
12:00	<b>COFFEE BREAK</b>	
12:15	<b>POSTGRADUATE COURSES &amp; INTERDISCIPLINARITY IN AUTH</b> <ul style="list-style-type: none"> <li>- <b>PGC “Nanosciences &amp; Nanotechnologies”,</b> Assoc. Prof. Th..Choli-Papadopoulou, Chemistry Dept.</li> <li>- <b>PGC “Geology &amp; Geoenvironment- Meteorology”,</b> Prof. Gr. Tsokas, A.Mploutsos, Geology Dept.</li> <li>- <b>PGC “Processes &amp; Advanced Materials Technology”,</b> Prof. A. Salifoglou, Chemical Engineering Dept.</li> <li>- <b>PGC “Materials Sciences”,</b> Assoc. Prof. E. Paloura, Physics Dept</li> <li>- <b>PGC “Medicine”,</b> Assis. Prof. P. Mpamidis, Medical Dept.</li> <li>- <b>PGC “Medical Informatics”,</b> Assoc. Prof. D. Koufogiannis, Medical Dept.</li> <li>- <b>PGC “Medical Physics”,</b> Assis. Prof. A. Siountas, Medical Dept.</li> <li>- <b>PGC “Environmental Protection and Sustainable Development”,</b> Prof. P. Latinopoulos, Civil Engineering Dept.</li> </ul> <b>CHAIR- DISCUSSION:</b> Th.Karakostas, M. Arsenakis	
13:30	<b>LUNCH BREAK</b>	
	<b>Session 2: Physics &amp; other Sciences</b>	
14:15	<b>PHYSICS – FACULTY OF SCIENCES &amp; FACULTY OF ENGINEERING: SCIENCE &amp; TECHNOLOGY - PRESENT &amp; FUTURE</b> <ul style="list-style-type: none"> <li>- Prof. I. Papadogiannis, Dean of Faculty of Sciences, AUTH</li> <li>- Prof. N. Mousiopoulos, Dean of Faculty of Engineering, AUTH</li> <li>- Prof. Th. Karakostas, Physics Dept., AUTH</li> </ul> <b>CHAIR- DISCUSSION:</b> S. Logothetidis	
15:00	<b>PHYSICS – ARCHAEOLOGY - GEOLOGY &amp; GEOPHYSICS: INTERNATIONAL YEAR OF “PLANET EARTH”</b> <ul style="list-style-type: none"> <li>“<b>Identification &amp; Mapping of Monuments by Geophysical Methods</b>”, Prof. Gr. Tsokas, Geology Dept.</li> <li>“<b>Exact Sciences &amp; Archaeology</b>”, Prof. K. Kotsakis, History and Archaeology Dept., AUTH</li> <li>“<b>Archeometric &amp; Applications of Physical Sciences in Archaeology</b>”, Assoc. Prof. G. Kitis, Physics Dept., AUTH</li> <li>“<b>Evolution of Ideas in Geosciences</b>”, Prof. S. Pavlidis, Geology Dept., AUTH</li> <li>“<b>Recent Evolutions in Seismology</b>”, Prof. A. Kiratzi, Geology Dept, AUTH</li> <li>“<b>Geoarchaeology &amp; Environment</b>”, Assis. Prof. G. Siridis, Geology Dept., AUTH</li> <li>“<b>Earth Gravity and its applications to geosciences</b>”, Prof. H. Tziavos, Rural and Surveying Engineering Dept., AUTH</li> </ul> <b>CHAIR- DISCUSSION:</b> S. Pavlidis, K. Kotsakis	
16:30	<b>PHYSICS- ENVIRONMENT – ATMOSPHERE &amp; METEOROLOGY</b> <ul style="list-style-type: none"> <li>“<b>Climate Changes: Current Trends</b>”, Prof. Th. Karakostas, Geology Dept., AUTH</li> <li>“<b>Physical Methods of study of aquatic environment</b>”, Assis. Prof. K. Almpanakis, Geology Dept., AUTH</li> <li>“<b>Environmental Effects from Ozone Destruction</b>”, Prof. A. Mpais &amp; D. Mpais, Physics Dept., AUTH</li> <li>“<b>Air Quality &amp; Health</b>”, Prof. N. Mousiopoulos, Mechanical Engineering Dept. AUTH</li> <li>“<b>Aquatic Sources- Development &amp; Environment</b>”, Assis.Prof. K. Boudouris, Geology Dept., AUTH</li> <li>“<b>Geothermic Energy &amp; other Renewable Sources</b>”, Prof. M. Fitikas, Geology Dept., AUTH</li> </ul> <b>CHAIR- DISCUSSION:</b> A. Mpais, Th Karakostas	
17:45	<b>COFFEE BREAK</b>	
18:00	<b>ASTRONOMY - ASTROPHYSICS – RELATIVITY - COSMOLOGY &amp; MATHEMATICS</b> <ul style="list-style-type: none"> <li>“<b>Secret Theorem of Platon &amp; Experiments of Automatic Control</b>”, Prof. A. Bardoulakis. Mathematics Dept. AUTH</li> <li>“<b>Cryptography: A Modern Challenge</b>”, Prof. D. Poulakis, Mathematics Dept. AUTH</li> <li>“<b>Physics &amp; Music of Palsars</b>”, Prof. J. Seiradakis, Physics Dept., AUTH</li> </ul>	

	“Was Einstein Right?”, Prof. K. Kokkotas, Physics Dept., AUTH & University of Tubingen <b>CHAIR- DISCUSSION:</b> I. Antoniou, L. Vlachos
	<b>Session 3: Award &amp; Round Table</b>
19:30	<b>AWARD of P. Savvidis Journalist</b>
19:45	<b>ROUND TABLE: “INTERDISCIPLINARY COOPERATION: AUTH IN THE THRESHOLD OF 21<sup>ST</sup> CENTURY”</b> (Faculty Deans & Chairman of Departments) <b>CHAIR:</b> P. Savvidis, T. Chatzidimitriou, S. Logothetidis
20:45	End of 1 <sup>st</sup> Day

## 2<sup>nd</sup> Day Program

09:30	<b>Registrations</b> <span style="float: right;"><b>Chair: G. Sachalos, T. Karakostas</b></span>
	<b>Session 4: Interdisciplinarity and Cutting Edge Technologies</b>
10:00	<b>LARGE INFRASTRUCTURES CERN &amp; NUCLEAR MEDICINE</b> “LHC and Physics Surprises in the next 10 Years”, Dr. E. Tsesmelis, CERN “Medical Physics Applications and the Hadron Therapy Network ENLIGHT”, Prof M. Dosanjh, CERN “New techniques in Imaging with Nuclear Medicine”, Prof. N. Karatzas, Medical School, AUTH <b>CHAIR- DISCUSSION:</b> N. Karatzas, C. Petridou, E. Gazis
11:00	<b>PHYSICS – CHEMISTRY – BIOLOGY – MEDICINE &amp; Cutting Edge Technologies</b> “Nano-Bio-Info Technologies: Energy- Electronics- Nanomedicine....”, Prof. S. Logothetidis, Physics Dept., AUTH “Research Agenda in Information and Communication Technologies”, Prof. G.N. Sachalos, Physics Dept., AUTH “Future challenge: Nanotechnology in Biochemistry”, Assoc. Prof. T. Choli- Papadopoulou, Chemistry Dept., AUTH “Biology: Genotype- Environment – Phenotype”, Prof. Z. Skouras, Biology Dept., AUTH <b>CHAIR- DISCUSSION:</b> Z. Skouras, G. Sachalos
12:15	<b>COFFEE BREAK</b>
	<b>Session 5: Universities &amp; Research Centers: Their role in society</b>
12:45	<b>HORIZONTAL ACTIVITIES IN AUTH – CERTH – INNOVATION ZONE –REGION OF CENTRAL MACEDONIA</b> “Regional Innovation Pole C. Macedonia: Results and Strategy for the Future” , Mr. P. Georgopoulos, Region of C. Macedonia “Alexander Innovation Zone: Targets and Prospects”, Prof. I. Vasalos, Head AZK “Research and Prospects in AUTH”, Prof. S. Panas, Vice Rector AUTH and Head of the Research Committee <b>CHAIR- DISCUSSION:</b> S. Panas, S. Logothetidis
13:45	<b>UNIVERSITIES &amp; AUTH IN 21<sup>ST</sup> CENTURY: ROLE – GROWTH POLICIES - SOCIETY</b> “University’s role and activities”, Prof. A. Manthos, Rector of AUTH “Globalization in Education”, Prof. S. Panas, Vice Rector of AUTH “Challenges in Research & Academic cooperation: The University in the center of Progress”, Prof. S. Koumpias, Rector of University of Patras “Higher Education and Research”, Prof. G. Gerothanassis, Rector of University of Ioannina <b>CHAIR- DISCUSSION:</b> A. Manthos, S. Koumpias
15:00	<b>LUNCH BREAK</b>
16:00	<b>RESEARCH CENTERS: ROLE &amp; CONTRIBUTION IN REGIONAL DEVELOPMENT</b> “Research as a Growth Engine”, Prof. D. Kiriakidis, Director National Hellenic Research Foundation “Role of research Centers in Postgraduate education”, Dr. D. Niarchos, Director National Center of Scientific Research, DEMOKRITOS “23 Years in Physics Department of AUTH”, Prof. C. Zerefos, Director National Observatory of Athens “Interdisciplinary Initiatives for Research, Innovation & Growth”, Prof. K. Kiparrisidis, Director Center for Research & Technology Hellas- CERTH <b>CHAIR- DISCUSSION:</b> D. Kiriakidis, S. Logothetidis
	<b>Session 6: Research – Technology - Innovation &amp; Economy</b>
17:00	<b>FROM RESEARCH &amp; INNOVATION TO ECONOMY &amp; SOCIETY</b> “Technology Transfer - Applications & Business Activation”, Dr. P. Giannoulis INTECS/Germany “CERN and its involvement in Technology Transfer”, Dr J. M. Le Goff, Head of Technology Transfer Group in CERN “Methods of Research Results commercialization - Enterprise Europe Network”, Mr. E. Christophilopoulos, Praxi Network “Open access Infrastructures for the enhancement of Academic & Research community”, Dr. E. Sachini, National Documentation Center <b>CHAIR- DISCUSSION:</b> I. Vasalos, A. Konstantopoulos
18:30	<b>COFFEE BREAK</b>
19:00	<b>ROUND TABLE: “UNIVERSITIES &amp; RESEARCH CENTERS – GROWTH ENGINES”</b> (RECTORS OF UNIVERSITIES, DIRECTORS OF RESEARCH CENTERS, P. GIANNOULIS, E. SACHINI, I VASALOS) <b>CHAIR:</b> P. Savvidis, T. Chatzidimitriou, S. Logothetidis
20:30	<b>END OF WORKSHOP</b>



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