

# FINAL PROGRAM

**Wednesday, September 29, 2004**

**6.00 pm – 8.00 pm**      **Registration**

**8.30 pm**                      **Welcome party offered by ALSTOM POWER – Italy**

**Thursday, September 30, 2004**

**8.30 am**                      **Registration**

**9.15 am – 10.30 am**      **Ulisse Hall**

**Opening Ceremony**

Welcome:

Adolfo Eric Labi      – President of Megalia Foundation

Giacomo Elias      – President Scientific Committee of Megalia Foundation

Antonio Martusciello – Undersecretary Ministry of Environment

Gianfranco Alois      – Regione Campania – Councillor of Productive Activities and Energy

Marco Fiorentino      – Mayor of Sorrento

**10.30 am**                      **Coffee break**

**Thursday, September 30, 2004**

**11.00 am – 1.00 pm**

**Ulisse Hall**

**Plenary Session**

**“Technological options for a sustainable development”**

The presentation of papers on solar energy, fossil fuels, fuel cells and climate changes, made by outstanding invited speakers coming from Israel, Germany, Denmark, France and England will generate an interesting discussion on the state of researches and workable technologies and contribute to the ongoing debate, not always constructive, taking place in Italy.

**Chairman: Giacomo Elias - President Scientific Committee of Megalia Foundation**

*Graduated in Mechanical Engineering in 1962. Full University Professor since 1975, chair of Applied Physics at the Faculty of Agriculture of the University of Milan.*

*Director of the "CNR-ENEA Energy Saving Project" from 1978 to 1991. President of UNI (The Italian Standards Organization), from 1985 to May 1999. President of CEN (The European Standardization Committee), for the period 1993-94. President of ISO (The International Organization for Standardization), for the period 1999-2000. President and then Vice President of SINAL from 1988. Member of the Italian Thermotechnical Association, of the American Society of Heating and Refrigerating Engineers, of AICARR, of the International Scientific Council of ACIF of Bogota, Colombia.*

*Former Chief of the Italian Delegation to the Research and Development Committee of IEA and former member of several EEC and CCMS-NATO scientific committees.*

*Presently Adviser of Minister Letizia Moratti for Evaluation; member of the National Committee for Evaluation of the University System (CNVSU), President of the work group ad hoc on Evaluation of Instruction, Adviser INVAlSI (National Institute for Evaluation of the System of Instruction).*

**11.00 am - "Development of methods for utilizing Solar Energy at the Weizmann Institute of Science"**

*Jacob Karni – The Weizmann Institute of Science – Rehovot – Israel*

*Ph.D. – Mechanical Engineering, University of Minnesota, 1985*

*M. S. – Mechanical Engineering, University of Minnesota, 1982*

*B. S. – Civil Engineering, University of Minnesota, 1979*

*Prof. Karni has 20 years of research and development experience with keen interest in the development of new methods for concentration, absorption, conversion, transmission and storage of concentrated solar energy, and implementing these methods in genuine solar power-conversion systems.*

*Karni was Assistant Professor at the Mechanical Engineering Dept. of SUNY at Stony Brook, N.Y. from 1984 to 1989 and has been at the Weizmann Institute since 1989. He was a visiting professor at the University of Minnesota in the summers of 1994 and 1996, and at Johns Hopkins University in the 1998-98 school year. In January 2002, Prof. Karni was promoted to head the Weizmann's Energy Center; he also oversees the entire Institutes' solar program.*

**11.20 am - "The contribution of coal to the future energy supply in Europe"**

*Klaus R.G. Hein – University of Stuttgart – Germany*

*Professor Dr. Ing. Klaus R.G. Hein graduated in 1964 from the Technical University Aachen, Germany. In his professional career he was research engineer at the International Flame Research Foundation IJmuiden/The Netherlands (1966-1971) and head of the Research and Development Department at the German Utility RWE (1971-1992). In parallel to this functions in industry he took the chair for Energy Technology at the University Delft, The Netherlands (1986-2003) and since 1992 is also Director of the Institute for Process Engineering and Power Plant Technology at the University Stuttgart/Germany. Furthermore Prof. Hein is member of various specialists' bodies in*

*Europe, has long years' experience in international engineering education and consultancy and is engaged at the European Commission as project coordinator and submission evaluator.*

*For his major achievements related to the improvements of power station technology in cycle efficiency and environmental performance he was awarded in Germany, China and USA and also appointed Honorary Professor at universities in China and Romania; his scientific and technical work is summarized in more than 300 publications.*

**11.40 am - "Taming fossil fuels – The environmental application of gasification"**

*John Griffiths – Jacobs Consultancy – London – UK*

*Eur. Ing. John Griffiths BSc, CEng, FIChemE, FEI, has over 40 years service as a professional chemical engineer in process engineering, commissioning, consultancy, and management positions. His main expertise is in the production, treatment and use of synthesis gas (syngas).*

*For the first ten years of his career, he was involved in all aspects of the design, erection and commissioning of units for the production, treatment and use of syngas in Town Gas, Refinery, Fertiliser and Power industries.*

*He led the conceptual design teams for the two 500 MW ISAB and Sarlux IGCC plants in Italy and is currently leading the Management Team for the first IGCC plant to be erected in the UK at Hatfield, South Yorkshire.*

*He is the originator of several patents and a Fellow of the Institution of Chemical Engineers and of the Energy Institute. He has organised several of the European Gasification Conferences, and is a member of the UK Department of Trade and Industry Advisory Committee on Carbon Abatement Technologies.*

**12.00 am - "Fuel cell technology – Current status and future prospects of an efficient energy conversion technology"**

*Angelika Heinzl – University of Duisburg – Essen – Germany*

*Study of chemistry at the Münster, Kiel and Oldenburg, degree doctor of science in 1985  
1.10.1985 – 30.9.2001 - Scientific employee of the Fraunhofer-Gesellschaft, Fraunhofer Institute for Solar Energy Systems ISE in the department „Chemical Energy Conversion and Storage“ since 1997 Head of the Department “Energy Technology”  
since October 2001 – Professor for energy technology in the department of mechanical engineering, faculty of engineering sciences, University of Duisburg-Essen  
since January 2002 - CEO of the ZBT GmbH*

**12.20 am - "Impact on climate change on electricity generation – A study case: the lessons of summer 2003"**

*Jean Pierre Cerdan – Head of Sustainable Development Program – EDF – Saint Denis – France*

*Master of Physics (Sciences University of Marseille), Post Graduate “Arts et Métiers” National Engineering High School (Paris), National Institute for Nuclear Sciences and Technologies .*

*Career path :*

*EDF R and D Division (3000 employees)*

*In charge of several management programs in the field of energy and environment.*

*Key words : thermodynamics, steam and gas turbines, power plants environmental impacts, new technologies, fuel cells and renewables.*

*EDF – Generation and Trading (38 000 employees)*

*Head of Sustainable Development program*

*Educational activities :*

*Thermodynamics, Energy and Environment at French Energy Institute and several Engineering High Schools.*

#### **12.40 am - “WB Carbon Finance Project Cycle and Role of Key Players”**

**Bernt Frydenberg – Consultant – Copenhagen – Denmark**

*Bernt Frydenberg is graduated as Master of Science and Economy from the Danish Technical University, the Copenhagen and the London Business school. His experience covers environment projects world wide as project manager and economist. In renewable energy the experience dates back to 1978 where he was project manager for the first European large scale biogas production plant on industrial waste water at Redon France. It was followed by wind farm developments in Ireland and Spain, and gasification of straw in the 80 ties. As marketing Manager for Elsam Engineering/Elsam he has a long record in promoting Clean Coal technology and Renewable Energy solutions. As consultants for the World Bank he has assisted in establishing pipelines for Clean Development Mechanisms projects in East Asia.*

#### **1.00 pm Working Luncheon**

**Thursday, September 30, 2004**

**2.30 pm – 6.10 pm**

**Ulisse Hall**

**Plenary Session**

**“Innovative technologies for clean power””**

**Chairman: Gennaro Volpicelli - University of Naples “Federico II”**

*Graduated in Industrial Engineering, chemical sector, at the Faculty of Engineering of the University of Naples in the academic year 1957-58. Since 1969 in charge of the chair of Impianti Industriali con Elementi di Disegno at the University of Naples “Federico II” and since 1975 Professor at the Faculty of Engineering.*

*Director of the Institute of Industrial Chemistry and Chemical plants in the years 1978/80 and President of the Committee for the graduation programs in Chemical Engineering in the years 1982-1990.*

*Has been Dean of the Faculty of Engineering at the University of Naples “Federico II” in the years 1990-1999.*

*Has held relations of scientific cooperation with public and private institutions (Ministry of Environment, Regione Campania, ENEL, SNIA, SNAM, FERTEC, CASMEZ, and CNR).*

*Has published more than 150 papers in national international magazines on technological and environmental topics.*

- 2.30 pm “Produzione di idrogeno ed elettricità da carbone con co-utilizzo di energia solare”**  
G. Girardi, A. Calabrò, P. Deiana, P. Fiorini – *ENEA – Rome – Italy*
- 2.50 pm “High performance WFGD system for Florina Power Station: features, operating experiences and performance results”**  
D. Muraskin – *Alstom Power US*  
R. Le Rose, G. Catalano – *Alstom Power Italia – Milan – Italy*  
A. Mizan, L. Lampropoulos – *PPC – Athens – Greece*
- 3.10 pm “Le fonti rinnovabili nei programmi di sviluppo di una impresa di generazione: il caso di Endesa Italia”**  
Giovanni Milani – *Endesa Italia – Rome – Italy*
- 3.30 pm “GE Oil & Gas e la sfida della *Small Power Generation*”**  
M. Pucci, I. Gremoli – *GE Oil & Gas Nuovo Pignone – Florence – Italy*
- 3.50 pm “Renewable energy from biomass: traditional plants versus gasification process. Operating Experience”**  
C. Aichernig – *Repotec – Wien – Austria*  
Roberto Fabbri – *STC Atel – Forlì – Italy*
- 4.10 pm Coffee break**
- 4.30 pm “Application of *Next Generation* ultra-low NOx burners in high temperature furnaces”**  
Richard Waibel – *John Zink Co.,LLC – Tulsa – OK, USA*
- 4.50 pm “On-line SCR reagent supply by urea decomposition process: commercial status”**  
W.H. Sun, P.G. Carmignani, J.M. Boyle – *FUEL TECH Inc – Batavia, USA*  
P. Ponzoni – *FUEL TECH – Gallarate – Italy*
- 5.10 pm “Variable speed drives and energy saving”**  
G. Torri, R. Pagano – *ASIRobicon – Milan – Italy*
- 5.30 pm “Microcogenerazione distribuita”**  
Francesco Cuomo – *OR.M.E. – Caianello – Italy*

**5.50 pm Discussion**

**6.10 pm End of Session**

**Friday, October 1, 2004**

**9.00 am – 1.00 pm**

**Ulisse Hall**

**Technical Session**

**“Hydrogen and fuel cells – present and future”**

**Chairman: Vincenzo Naso - President ISES Italia, Director CIRPS – University of Rome “La Sapienza”**

*Born on 10-11-44. He is Full Professor of Energy Systems at the University “La Sapienza”; he is also Energy Manager and Director of CIRPS, Interuniversity Research Center for Sustainable Development, Director of the Unità Organizzativa Eudossiana and Director of the University for Energy.*

*He is also Director of two University Master of Second Level on energy and environment topics and good management of energy and water resources. Manager of second stage of tertiary education in “Energy and Environment Technologies for Sustainable Development”.*

*He is Member of International Commissions and Expert of European Commission on energy and environment topics; Vice president of International Solid Waste Society and Member of many national and international Technical-Scientific Associations.*

*President of ISES ITALIA, Italian Section of the International Solar Energy Society, ISES.*

**9.00 am “Hydrogen as an energy carrier – Possibilities and challenges”**

*G.Q. Miller, D.W. Penner – UOP LLC, Des Plaines, Illinois, USA*

*Michael Whysall – UOP NV – Antwerp – Belgium*

**9.20 am “Hydrogen energy: can we help? – An industrial perspective”**

*Francois Jackow – AIR LIQUIDE – Paris – France*

**9.40 am “Hydrogen and natural gas combustion in gas turbine”**

*G. Benelli, G. Tanzini, V. Cinti – ENEL Ricerca – Pisa – Italy*

**10.00 am “Hydrogen economy and distributed energy generation: the Ansaldo strategy”**

*Angelo Airaghi – Ansaldo Fuel Cells SpA – Genova – Italy*

**10.20 am “Attività CESI in campo idrogeno”**

*Mauro Scagliotti – CESI SpA – Milan – Italy*

**10.40 am Coffee break**

**11.00 am “Solid oxide fuel cells for clean power generation”**

Eva Frey – *SIEMENS AG – Erlangen – Germany*  
Gianfranco Ceudek – *Siemens SpA – Milan – Italy*

**11.20 am “Theoretical analysis on the possibility of landfill gas employment for distributed power generation”**

S.P. Cicconardi, A. Perna, F. Tunzio – *University of Cassino – Italy*

**11.40 am “Modelling, simulation and exergy analysis of a hybrid SOFC – gas turbine system”**

F. Calise, M. Dentice D’Accadia, A. Palombo, R. Vanoli – *University of Naples “Federico II” – Italy*  
L. Vanoli – *University of Naples “Federico II” – Portici – Italy*

**12.00 am “Analisi energetico-ambientale di celle a combustibile in assetto cogenerativo”**

P. Arcuri, G. Florio, P. Fragiaco – *University of Calabria – Arcavacata di Rende – Italy*

**12.20 am “Abatement GHG emissions scenario for energy & transport sectors”**

Nikolle Gega – *Ministry of Industry and Energy – Tirana – Albania*  
Pashko Gega – *Institute of Environment – Tirana – Albania*

**12.40 am Discussion**

**1.00 pm Working Luncheon**

**Friday, October 1, 2004**

**9.00 am – 1.00 pm**

**Tritone Hall**

**Technical Session**

**“Environmental friendly energy recovery”**

**Chairman: Giovanni Riva – Polytechnic University of Marche**

*Riva Giovanni (1952), engineer, full professor at the Marche Technical University Polytechnic, managing director and director of the CTI (Italian Thermal Engineering*

Committee). The main topics of interest have regarded the field of the renewable energy sources with particular reference to the biomasses (solid and liquid biofuels for the production of heat and electricity), to the residual by-products (industrial wastes) and the energy saving (for industry and agriculture), beyond the development of the standards for the thermotechnical field. He has organized numerous cultural and technical events, published approximately 250 papers and participated to numerous FAO and UE projects.

**9.00 am “Il progetto SERPENTE – Sistema Esperto per il Risparmio Energetico Nelle Tecnologie Elettriche”**

P.C. Brambilla, P. Girardi – *CESI SpA – Milan – Italy*

**9.20 am “Preventing exergy destruction in the cold end of a power plant”**

J. Oman, B. \_irok, J. Smrekar – *University of Ljubljana – Slovenia*

**9.40 am “Repowering of Piacenza steam power plant into a state-of-the-art combined cycle power plant”**

Giuseppe Monteforte – *Edipower SpA – Milan – Italy*

Enrico Savoldi – *Techint Cimi.Montubi – Milan – Italy*

**10.00 am “L’utilizzo del carbone come combustibile economico e di limitato impatto ambientale”**

A. Cipollina, G. Micale – *Dipartimento di Ingegneria Chimica – University of Palermo – Italy*

Giuseppe Lo Verso – *Commissione Energia dell’Osservatorio Italia – Rome – Italy*

**10.20 am “Biomasse legnose: problemi e soluzioni per l’utilizzo energetico”**

Maurizio Colella – *Fedecomlegno/Federlegno-Arredo – Rome – Italy*

**10.40 am “Natural gas vehicles in the italian and mediterranean context”**

A. Di Lorenzo – *Istituto Motori CNR – Naples – Italy*

R. Gaudio – *Consorzio NGV System – Italy*

**11.00 am Coffee break**

**11.20 am “Comparative analysis of low CO<sub>2</sub> emission coal-fired power plants”**

S. Consonni, G. Pelliccia – *Department of Energetics – Polytechnic of Milan – Italy*

**11.40 am “Benefici ambientali e risparmi energetici: una ricerca applicata di sfruttamento dell’energia potenziale idraulica”**

F. Patania, A. Gagliano, F. Nocera – *DIME – University of Catania – Italy*

**12.00 am “Piani e programmi per il risanamento e mantenimento della qualità dell’aria in Regione Campania”**

M. Cardone, P. Iodice, A. Maresca, M. Migliaccio, A. Senatore – *DIME – University of Naples “Federico II” – Italy*

R. Iorio, M. Mansi – *Tamas (ARPAC) – Italy*

Lorenzo Vetere – *Regione Campania – Italy*

R. Vaccaro, C. Trozzi, C. Melis – *Techne Consulting Srl – Rome – Italy*

**12.20 am “Operazione caldaia sicura”**

Michele Macaluso – *ANEA – Naples – Italy*

**12.40 am Discussion**

**1.00 pm Working Luncheon**

**Friday, October 1, 2004**

**2.30 pm – 6.00 pm**

**Ulisse Hall**

**Technical Session**

**“Renewable sources and emerging technologies”**

**Chairman: Vincenzo Naso - Dean of Engineering Faculty of University of Naples “Federico II”**

*VINCENZO NASO got a degree in Mechanical Engineering, cum laude, at the Facoltà di Ingegneria dell'Università di Napoli. He has been Full Professor in Heat Transfer, always in the Facoltà di Ingegneria di Napoli, from 11/1/1980 until now. He is member of the Consiglio Universitario Nazionale. He is the Dean of the Facoltà di Ingegneria dell'Università degli studi di Napoli Federico II. He has been the coordinator of many research groups and currently he is the coordinator of a National Research Project on Single-Phase Natural Convection in Channel and Cavities co-funded by the Ministero dell'Università e della Ricerca scientifica. He carried out a research activity in film boiling, in liquid crystals thermometry, in heat transfer in fins, in heat removal from photo-voltaic cells by a heat pipe and in solar assisted heat pumps, His current fields of interests are natural and mixed convection in channels and heat conduction in solids with a moving heat source above. He has been the author or the co-author of 90 scientific papers and 8 text books.*

**2.30 pm “Renewable Energy for the 21<sup>st</sup> Century”**

Herbert Peels – *GE Energy – Wind – Salzbergen – Germany*

- 2.50 pm “Energia dal vento”**  
Michele Lucchesi – *ICQ HOLDING SpA – Rome – Italy*
- 3.10 pm “MTBE & ETBE – European key tools to address EU alternative & bio-fuels ambition”**  
Walter R. Mirabella – *Lyondell Chemical Europe Inc. – Milan – Italy*
- 3.30 pm “La stazione multiEnergy AGIP per la mobilità sostenibile”**  
Salvatore Carbonaro – *ENI Div. R & M – Rome – Italy*
- 3.50 pm “Lo stoccaggio geologico della CO<sub>2</sub>: la situazione italiana”**  
Roberto Bencini – *INGV – Rome – Italy*
- 4.10 pm Coffee break**
- 4.30 pm “Energy recovery from landfill gas at Giugliano plant: first results”**  
Gianluca Barducci – *Tavolini Srl – Florence – Italy*  
M. Dentice d’Accadia, A. Palombo, R. Vanoli – *DETEC – University of Naples “Federico II” – Italy*  
Giacomo Gerlini – *GESEN SpA – Naples – Italy*
- 4.50 pm “Problematiche legate alla caratterizzazione analitica di combustibili derivati da rifiuti”**  
M. Achilli , G. Ciceri, D. Fermi, C.Terni – *CESI SpA – Piacenza – Italy*
- 5.10 pm “Valutazioni energetiche ed economiche di sistemi di riscaldamento a energia solare: confronto tra impianti a pavimento radiante e a ventilconvettori”**  
N. Arcuri, R. Bruno – *DIME – University of Calabria – Arcavacata di Rende – Italy*
- 5.30 pm “Application of biomass fed ORC power systems in the furniture manufacturing industrial district of Pordenone”**  
**Part I: Determinants of renewable energy exploitation**  
D. Chinese, A. Meneghetti, G. Nardin, P. Simeoni – *DIEM – University of Udine – Italy*  
**Part II: Development of thermodynamic cycle simulation model**  
D. Micheli, M. Reini, R. Tacconi – *Energetics Department – University of Trieste – Italy*  
Piero Pinamonti – *DIEM – University of Udine – Italy*

**6.00 pm End of Session**

**Friday, October 1, 2004**

**2.30 pm – 6.00 pm**

**Tritone Hall**

**Technical Session**

**“Innovative trends in the production of electric energy”**

**Chairman: Francesco Gagliardi – President AEIT**

*Born in 1934 in Cervaro (FR), he gets a degree in Electrical Engineering in 1961. He begins his activity at the FINSIDER in 1960 and in 1964 he has been assigned the task to teach “Electrical Measurements” by the Engineering faculty of Naples.*

*In 1972 he becomes Director of C.S.E.I. and Vice President of A.I.C.Q. Italian Association for the Quality Control.*

*In 1975 he wins the competition for University Full Professor of “Electrical Plants” at the Engineering faculty.*

*In 1982 he is appointed as President of the National Group of Coordination for the studies of “Electrical Plants” of the Research National Council. Dean of the Engineering faculty of Cassino and President of southern A.I.C.Q.*

*In 1983 he receives the job to establish the new Engineering faculty of Cassino and in 1984 he is appointed as Pro-Rector at the University of Cassino.*

*In 1989 he has been assigned the task to teach Electronics at the University of Cassino and in 1990 he teaches “Electrical systems” at the University of Naples.*

*In 1996 he received the task to teach Electronical Systems in the Electrical Plants and in 1997, that one of Automation of Electrical Plants.*

*In 1998 he is appointed as President of the Degree Course in Electric Engineering at the University of Naples.*

*He is author of studies and papers on administrative, economical and organizational aspects of the boards of territory and of the South Italy and of 141 scientific papers shown on magazines and on national and international Congresses.*

**2.30 pm “L’innovazione nel sistema elettrico: lo sviluppo delle fonti alternative e della generazione decentralata e distribuita”**

*Giovanni L. Marengo – ENEA – Rome – Italy*

**2.50 pm “Generazione competitiva di energia elettrica nei cicli combinati di grande taglia”**

*Berardino Pezzella – Alstom Power Italia – Milan – Italy*

- 3.10 pm** “Integrazione di cicli combinati con impianti WTE. Proposta di un polo impiantistico per la produzione di energia e lo smaltimento dei rifiuti solidi urbani”  
S. Zannier, R. Biancardi – *WtE Unit – D.G.I. Daneco Gestione Impianti – Milan – Italy*
- 3.30 pm** “Analisi del funzionamento stazionario di una microturbina a gas alimentata a gas naturale e con combustibili alternativi”  
F. Bozza, M.C. Cameretti, R. Piazzesi, A. Pontecorvo, F. Reale, R. Tuccillo – *DIME – University of Naples “Federico II” – Italy*
- 3.50 pm** “Aspetti normativi, tecnici ed economici connessi alla penetrazione di sistemi di trigenerazione”  
S. Barsali, P. Pelacchi, A. Trivella – *DSEA University of Pisa – Italy*
- 4.10 pm** **Coffee break**
- 4.30 pm** “District cooling: economics, governance and environmental aspects”  
Franco Becchis – *Environmental Foundation “T. Fenoglio” – Turin – Italy*
- 4.50 pm** “Design optimization of enhanced-mixing duct-burners for combined-cycle plants”  
L.A. Catalano, A. Dadone, D. Manodoro – *DIME – Polytecnic of Bari – Italy*
- 5.10 pm** “Modello termofluidodinamico per lo studio delle prestazioni di un ossidatore termico rigenerativo (O.T.R.) a tre torri”  
M. Amelio, M. Cucumo, G. De Lorenzo – *DIME – University of Calabria – Arcavacata di Rende – Italy*
- 5.30 pm** “Progetto e sviluppo di un modello econometrico generalizzato per impianti di cogenerazione”  
G. Chiummo, A. Di Nardo, G. Langella, C. Noviello – *DIME – University of Naples “Federico II” – Italy*
- 5.50 pm** **Discussion**
- 6.00 pm** **End of Session**

**Saturday, October 2, 2004**

**9.00 am – 10.30 am**

**Ulisse Hall**

**FORUM**

**“Energy and competitive market”**

The most important factors, necessary to increase the competitiveness of our country, are: the reduction of energy cost and the liberalization of regulated markets, two basic themes in the economical policy of Governments.

In fact, as everybody knows, Italy, where the energy costs for companies are among the highest in Europe, is trying, in different ways, to improve this tie; at the same time, it is gradually liberalizing the relative markets in order to increase competitiveness in the energy field, for a long time closed to a real competition

In this FORUM, outstanding speakers will deal with these topics, particularly with the development of energy and environmental policy in Italy.

**Chairman: Edgardo Curcio – President of Italian Association of Energy Economists (AIEE)**

*Graduated in Economics from Rome University. After professional assignments in the petroleum sector of API and in the petrochemical area of BPD as Manager of Strategic Development, he Joined ENI. In this Group he worked in the Financial and Planning Division and as co-ordinator of Energy Planning of ENI holding.*

*In 1980, he was appointed General Manager for Planning and Business Development at AGIP. In 1991, Deputy Chairmain of SOGESTA.*

*At present Chairman of AIEE (Italian Association of Energy Economists) and Professor at the "La Sapienza" University of Rome in the Postgraduate Course on "Energy and Environment Management". Expert of energy sector he is consultant of Ministry of Industry, of CNEL and of other public and private Institutes.*

**Institutional presence**

**Sergio Garribba**

**General Director Ministry of Productive Activities**

*Since January 2004 Director General of Energy and Mineral Resources at the Italian Ministry of Productive Activities.*

*Dec. 1996 – Dec. 2003, Commissioner of the Regulatory Authority for Electricity and Natural Gas of Italy.*

*1994 – 1996, Director of the Energy Department, National Agency for Energy, New Technologies and the Environment (ENEA), Rome, Italy.*

*1987 – 1993, Director of Energy Technology and R & D, International Energy Agency – OECD, Paris.*

*1974 – 1985, Co-Director and Director of Economic Research, Institute of Economics of Energy Resources (IEFE), Milan, Italy.*

*1990 – 1993, Participated in the international negotiation process for the UN Framework Convention on Climate Change, the Agenda 21 for Sustainable Development, and the Energy Charter.*

1978 – 1987, Advisor on energy policy matters to the Italian Government. Professor on leave from the Polytechnic Institute of Milan Italy. Graduated in Nuclear Engineering, University of California, Berkeley and Polytechnic Institute of Milan, Italy.

**Alessandro Ortis**  
**President Autorità per l'Energia**

*Mr. Ortis is President of the Authority for Electricity and Gas since December 2003. During his career, Mr. Ortis has served as Director General for Energy and Mineral Resources at the Italian Ministry for Productive Activities. He furthermore acted as President of the Cassa Conguaglio , Equalisation Fund for the Electricity Sector. He was also member of: the Governing Board of the International Energy Agency, the Italy's Higher Council for Public Works, the Technical – Scientific Commission at the Italian Department for Civil Protection, the Scientific Committee of SOGIN.*

*Mr. Ortis has also served as: Vice President of ENEL, President of EURELECTRIC (the European Electric Industry Association), Chairman of the International Energy Agency's Group of Experts for the electricity sector, lecturer in business organisation and management.*

*He has held management positions within state-owned companies and in the private sector, at Zanussi Group, Pirelli Group, ENI Group, Ispredil – ANCE, Serono and Tecnofarmaci. He attended the "Nunziatella" Military College in Naples, has a degree in nuclear engineering from "Politecnico di Milano" University and is graduate of "Bocconi" University's School of Management.*

**Carlo Andrea Bollino**  
**President GRTN**

*Full Professor of Economics, University of Perugia (since 1998) and Professor of Econometrics, University LUISS Guido Carli, Rome (since 1984). Graduate in Economics, University Bocconi, Milan, 1977; Ph.D. in Economics, University of Pennsylvania, 1983, with Nobel Winner Prof. Lawrence Klein.*

*Fulbright-Hays Scholarship 1977-1978.*

*Current positions:*

*President, GRTN, Gestore Rete Nazionale Trasmissione, (since 2003).*

*Energy Advisor to the Minister of Industry (since 2001).*

*Expert, Industrial Policy Evaluation Unit, Ministry of Industry, (since 2001).*

*Chairman of INSME Steering Group, Ministry of Industry and OECD (since 2001).*

*Member of CNEL, Consiglio Nazionale dell'Economia e del Lavoro, (Expert nominated by the President of the Republic, 2000-2005).*

*Vice President for Development and International Affairs, IAEE, International Association of Energy Economists (2002-2004).*

*Vice President, Italian Association of Energy Economists (2001-2003 and 2003-2005).*

*Past positions:*

*Expert, Public Investment Evaluation Unit, Ministry of Treasury, (1993-1998). Economic Advisor to the Minister of Treasury, (1993-1996). Chief Economist, ENI, (1989-1993).*

*Member of the Board, International Management Institute of St. Petersburg (1990-1993).*

*Economist, Research Dept., Bank of Italy, (1983-1989). Member of OECD Financial Statistics Committee (1988-1989). Research Associate, Project Link for the United Nations (1980-1983).*

*Taught Economics also at Universities of Pennsylvania (USA), Campobasso, Sassari and Urbino (Italy).*

*Author of over 90 scientific publications, President of the Scientific Committee of AIEE Associazione Italiana degli Economisti dell'Energia (Italian Energy Economist Association) and Member of the Italian Economic Association, Member of the Italian Statistical Association, Member of IAI (Istituto Affari Internazionali). Research Director of several CNR (National Research Council) Projects.*

**10.30 am Coffee break**

**Saturday, October 2, 2004**

**11.00 am – 1.00 pm**

**Ulisse Hall**

**Round Table**

**"Competitiveness on the new liberalized energy markets"**

We have been attending, in the last decade, the rise and the growth of privatization and liberalization processes in all over the world, characterized in Italy by the following:

- disappearance of the old monopolists who, as unique actors, have integrated, internationally or regionally, the planning, the development and the management of the energy system;
- appearance of a large number of institutions with relevant regulations which affect the market's growth;
- appearance of a large number of new operators in addition to the "energy companies";
- strong presence of a series of legal, technical and financial advisors in the institutions/operators mentioned above.

Aim of the Round Table, in such a scenario, is to verify and debate the impact this revolution has and has having on the most important operators and on the possible improvements which can be made.

**Chairman: Alessandro Clerici – Delegate for Energy ANIE**

*He received his degree of "Doctor in Electrical Engineering" from the Polytechnic Institute of Milano in 1961.*

*From 1961 to 1980 he was with CESI.*

*In 1980 as Central Manager for Technology and Business Development he joined the SADE-SADELMI Group (Contracting Company of G.E. U.S.*

*From 1989 to 1991 he has been the Technology Manager of the new company (SAE SADELMI); he has also been the R&D manager for the business area Power Lines of ABB worldwide.*

*From 1991 to 1995 he has been Managing Director of ABB Sistemi Trasmissione Energia.*

*From June 1995 to November 2001 he has been Executive Vice President of ABB Italy for Business and Technology Development and member of the Executive Committee.*

*From 1999 to 2003 he has been Vice President of ANIE (Federation of Electrical and Electronics Industries) for Energy and Environment; now he is Delegate for Energy in the steering committee of the same.*

*Since November 2001 he is senior consultant to the chairman of ABB S.p.A. Italy and to other energy companies.*

*He is at present Chairman of the WEC (World Energy Council) Italian Committee.*

*In addition to his managerial duties, Alessandro Clerici has taken and is taking active part in Seminars, Congresses, Round tables.*

## **Participants:**

### **Giorgio de Panno C.E.O. Enelpower**

*Having graduated in Chemical Engineering at Federico II University in Naples, Italy, Giorgio de Panno attends the Business Administration School of Bocconi University in Milan.*

*In 1972, shortly after his first experience in LIQUICHIMICA he joins MONTEDISON Group, where his professional excursus grows internationally. In 1990 he is appointed General Manager of TECNIMONT, the Engineering & Contracting Company, spinned-off from the Engineering Division of the MONTEDISON Group.*

*In 1995 MEDIOBANCA calls him to manage the FOCHI Group, going through a very deep financial crisis. At the end of the following year he enters FIAT Group, being appointed C.E.O. and later also Chairman of FISIA ITALIMPIANTI.*

*In July 1998, he is leading the Chemical and Energy activities of SNIA, as C.E.O. of CAFFARO and its subsidiaries, including CAFFARO ENERGIA, a joint venture in the electric power business with SONDEL and later EDISON.*

*He is C.E.O. of ENELPOWER, the Engineering and Contracting Company of ENEL, since August, 2002.*

*He has been Chairman of the Chemical Industries Association in Assolombarda and a member of both Federchimica Steering Committee and of UNAPACE (now ASSOELETTRICA), Electrical Industries Association, Executive Board.*

### **Massimo Orlandi President Energia**

*Following the high school (Liceo Scientifico), he received a degree (1984) in Chemical Engineering, from "Università degli Studi di Roma La Sapienza".*

*He began his professional carrier with Eni Group and then worked for Edison, initially as Director of Business Development (electric sector) and afterwards as Commercial and Operations Director for Edison Gas. He then became President and Chief Executive Officer of Edison Idrocarburi Italiana SpA and SAG-Società Adriatica Gas SpA.*

*In July 1999 he started-up, as CEO, Energia S.p.A., the new entrant in the Italian energy market.*

*Today Energia group is one of the first five players in electricity and gas in Italy.*

**Giacomo Elias**  
**President Scientific Committee of Megalia Foundation**

*Graduated in Mechanical Engineering in 1962. Full University Professor since 1975, chair of Applied Physics at the Faculty of Agriculture of the University of Milan.*

*Director of the "CNR-ENEA Energy Saving Project" from 1978 to 1991. President of UNI (The Italian Standards Organization), from 1985 to May 1999. President of CEN (The European Standardization Committee), for the period 1993-94. President of ISO (The International Organization for Standardization), for the period 1999-2000. President and then Vice President of SINAL from 1988. Member of the Italian Thermotechnical Association, of the American Society of Heating and Refrigerating Engineers, of AICARR, of the International Scientific Council of ACIF of Bogota, Colombia.*

*Former Chief of the Italian Delegation to the Research and Development Committee of IEA and former member of several EEC and CCMS-NATO scientific committees.*

*Presently Adviser of Minister Letizia Moratti for Evaluation; member of the National Committee for Evaluation of the University System (CNVSU), President of the work group ad hoc on Evaluation of Instruction, Adviser INVAlSI (National Institute for Evaluation of the System of Instruction).*

**Giordano Serena**  
**President Assoelettrica**

*Graduated in Chemical Engineering at the University of Padua, started his professional career at the Montedison Group(1971-1980) and continued at the Ciga Hotels ( 1981-1987) as Technical Director and Member of the Management Committee, and at ABB Asea Brown Boveri as Business Development Manager in the Power Lines and General Contracting sector.*

*In April 1990 joined the Falck Group, formerly as General Director and later as Managing Director of Sondel and of other companies in joint ventures with Sondel.*

*Since 2001 joined the Edison Group where he has been appointed as Managing Director of Edison Termoelettrica and Edipower, a company established for the acquisition of Eurogen, the most important of the three Genco, sold by Enel. Since March 2004 he is the Director of the Idrocarburi Business Unit. Presently is President of Assoelettrica, the National Association of the Electric Enterprises members of Confindustria; he is member of the Managing Committee of IEFEE, (Istituto di Economia e Politica dell'Energia e dell'Ambiente ) at the Bocconi University in Milan;*

*is also member of the Managing Committee of ANIMP (Associazione Nazionale Impiantistica Industriale) of Assocarboni and of Assomineraria.*

**Fabio Leoncini**  
**President AIGET**

*One of the founders and since 2000 President of AIGET (Associazione Italiana di Grossisti di Energia e Trader), the Italian Association of Energy Traders and Wholesalers*

*Professional career within the Techint Group in Italy and Latin America*

- *mergers and acquisitions division*
- *strategic planning area*
- *privatisation in the energy and service sectors Latin America and Italy since 1990*

- CFO of the electricity distribution company EDELAP (La Plata, approx. 300,000 customers)
- in charge of energy business development for Latin America
- Energy Development Manager of the Dalmine Group and then CEO of the newly created Dalmine Energie

*Degree in Economics at Buenos Aires University*

## **Conclusions**

**Adolfo Eric Labi – President of Megalia Foundation**

## **Poster Session**

- 1. “Raffrescamento passivo radiativo di superfici inclinate esposte alla volta celeste”**  
M. Cucumo, A. De Rosa – *DIME – University of Calabria – Arcavacata di Rende – Italy*
- 2. “La direttiva UE 2002/91/CE e l’automazione domestica: l’evoluzione tecnologica del sistema di gestione energetico-qualitativo nella civile abitazione”**  
G. Ioppolo, G. Saija, S. Chiricosta – *RIAM – University of Messina – Italy*
- 3. “Solar Balls Focusing on PV”**  
Maurizio Checchetti – *MicrOptronics Srl – Carate Brianza (Milan) – Italy*
- 4. “L’etichettatura energetica come strumento per il risparmio energetico”**  
V. Vittucci, M.C. Lucchetti, A. Grippa – *University of Studies Roma Tre – Italy*
- 5. “A multi-criteria approach to assess sustainable energy options: an application of the promethee”**  
Fausto Cavallaro – *Dipartimento SEGeS – University of Molise – Campobasso – Italy*
- 6. “Evaluation of the total owning cost of MV/LV for industrial distribution transformers with different loss levels”**  
Angelo Baggini – *University of Bergamo – Dalmine – Italy*  
Franco Bua – *ECD Engineering Consulting and Design, Milan – Pavia – Italy*  
Vincenzo Loconsolo – *IIR Istituto Italiano del Rame – Milan – Italy*
- 7. “Parametric analysis of post-combustion process in gas turbine plant”**  
G. Chiummo, A. Di Nardo – *DIME – University of Naples “Federico II” – Italy*  
S. Giammartini, C. Mongiello – *ENEA, C.R. Casaccia – Rome – Italy*