



Press release

ESOF2010
PASSION FOR SCIENCE COMES TO TORINO
Torino, July 2-7 2010

Passion for science comes to the town: Nobel Prize awarded celebrities, scientists, researchers as well as young people, students, science lovers coming from all over the world, will meet in Torino for the fourth edition of Euroscience Open Forum, the first time in Italy

Torino, July 2 2010. Scientists, researchers, young people, students and science lovers coming from all over the world will meet for 6 days from **July 2 to 7** in **Torino** for the fourth edition of Euroscience Open Forum, **ESOF2010**. **Passion for Science**: passion for science, discovery and innovation is the fil rouge of this edition which will take place for the first time in Italy.

Over **3,000** visitors coming from **80** countries, almost **200** sessions, about **800** scientists, some of which represented by women and for the majority under 35, **40** nations, hundreds of journalists, **6** Nobel Prize celebrities and many international important scientists: these are ESO2010 data.

On Friday July 2 at the Giovanni Agnelli's Auditorium in Lingotto the President of the Republic **Giorgio Napolitano** will open the fourth edition of ESO2, by a video-message; underlining this opportunity for Italy to be the core of global scientific cooperation. Leading actor of the opening ceremony will be **Julia Fischer** a German ethologist and primatologist dealing with the topic of animal communication, the evolution of the language of mammals.

ESOF2010 represents a unique occasion in Europe to meet the great protagonists of international scientific research: Anton Zeilinger, Angelika Brandt, Elena Cattaneo, Julia Fischer, Carlos Duarte, Ernst Fehr, Tecumseh Fitch, Serge Fenuille, Raghavendra Gadagkar, Sheila Jasanoff, Tom Kirkwood, Mohammed Hassan, Marie-Pierre De Bethune, Andrea Ferrari, Jean-Claude Guedon, Giacomo Rizzolatti; just to mention some of them, along with the Nobel Prize celebrities: Ada Yonath, Peter Agre, Sir Harold Kroto, George Smoot, Gerard't Hooft and Kurt Wuetrich.

Among the most important appointments: the Keynote Lecture **by Elena Cattaneo**, the most famous Italian scientist on stem cells, winner of "Le Scienze" prize in 2001; and on July 3 the meeting with **Kurt Wuthrich**, the founder of magnetic resonance and Nobel Prize for Chemistry. Every day a Plenary Lecture will be organized, by the most important players of the International scientific panorama: on July 4 **Peter Agre** Nobel Prize for Chemistry and AAAS President; on July 5 **Anton Zeilinger** quantum physicist and pioneer of teleporting, on July 6 **Ada Yonath**, an Israeli Nobel Prize for Chemistry.

The topics discussed during ESO2010 cover various fields of knowledge, issues concerning everyday's life: current news, scientific discoveries that changed and will change the course of human life, evolutions and inventions, cultural differences and technology innovation. The opportunity – to be addressed to everybody – for listening, understanding and discussing about scientific important matters.

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These are the 10 topics defined for the fourth edition of *Passion for Science* :

1. Sustainable life and moving
2. Evolution, development and adaptation of organisms
3. Moving into and up from our quantum world
4. Responding to global needs
5. Frontiers in energy research
6. Science, knowledge and belief
7. Memory and learning in organisms, social and artificial systems
8. Languages, cultures and variability
9. Integrating science with health care
10. Policy – what follows?

Besides the **Scientific Programme**, ESOF2010 covers three more activities: the **Career Programme**, an event that will give the possibility to young researchers – even on an informal basis - to discuss and debate the topics of science with ESOF2010 renowned guests, during the *Pizza with the Prof* programme and **Science to Business Programme**, a showcase for industry and for all the research institutions.

For the first time, a programme for scientific spreading has been conceived, involving the city: **Science in the City**: over eighty events, stage conferences, lectio magistralis, exhibitions and games will invade the city of Torino with science.

At Lingotto Fiere **Research & Innovation Exhibition** will take place: over 50 exhibitors, research institutes, universities, companies and foundations from all over the world will meet.

WHAT IS ESOF2010?

ESOF was created by Euroscience (www.euroscience.org), an association dated 1997, its seat being in Strasbourg, counting 2,330 members from over 40 countries, open to scientists, researchers, politicians, teachers, graduates, entrepreneurs and, in general, anybody interested in science and technology. ESOF2010, a two year **international meeting**, was created thanks to the support of **Regione Piemonte, Provincia di Torino, Città di Torino, the European Commission and the Compagnia di San Paolo**. Torino will host thousands of scientists, teachers, journalists, politicians, entrepreneurs and communicators. The event is locally organised by the **TopESOF Association – Torino for ESOF2010**, constituted by the Compagnia di San Paolo, Agorà Scienza Inter University Centre and CentroScienza Onlus. The association is chaired by **Enrico Predazzi**, emeritus Professor from Torino University.

The Steering Committee, the International committee supervising the event, is constituted by prestigious personalities operating in the domain of science and has **Sir Harold Kroto, 1996 Nober Prize for Chemistry**, as its Honorary President

WHY TORINO?

After a tight competition with Copenhagen, Paris and Wroclaw, **Torino** was selected, with its long experience as a laboratory, its tradition as science and industrial oriented capital city and its commitment to spread science among its citizens. Torino has always been the real expression of a dynamic and lively place for different sectors, from automotive industry to cinema, from museums to aeronautics, from food specialties to fashion, looking as a creative and young world.

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SCIENCE IN THE CITY

Torino: a centre of gravity for your mind!

From July 2 to 7 2010 the heart of the city will be beating for science

From July 2 to 7, Lingotto Fiere, the streets and the squares of Torino historical city centre will turn into a great stage, where science will be the main player thanks to original initiatives organised for the public of any age. During ESOF2010 the heart of the city will become an open air workshop: over eighty appointments including conferences, exhibitions, workshops, role plays, theatre performances, interactive installations will be organized. While at Lingotto the leading personalities will deal with issues concerning the greatest scientific topics, thanks to **SCIENCE IN THE CITY**, passion for science will invade the whole city: squares, museums, historical buildings, theatres and the coffee shops of Torino will play an active role.

During ESOF2010, a six day performance science event, will become the main player in Piazza Castello, Piazza San Carlo, Piazza Carlo Alberto and Piazza Carignano as well as in many other places where the city culture develops.

On July 3 **Piergiorgio Odifreddi** will present the NIGHT OF NOBEL PRIZE: four Nobel Prize awarded people, **George Smoot, Peter Agre, Gerard 't Hooft** and **Harold Kroto**, honorary President of ESOF2010 Steering Committee, will tell about the extraordinary discoveries that definitely changed the horizon of astrophysics, biology, physics and chemistry. After that, an extraordinary music party will be performed - where **Antonella Ruggiero's** voice will mingle with the unchained rhythms of Piazza Caricamento's band.

On July 4 in Piazza San Carlo, **Elena Cattaneo**, expert on stem cells, and **Piero Angela** will debate on the big promises of the research. Still in Piazza San Carlo, in the night of July 5, **Mario Tozzi's** conference - FINE CORSA?(IS THIS THE END OF THE RIDE?) will make us face the crucial dualism between economics and ecology: the depletion of fossil fuels, the human excesses of consumption and the destiny of western industrial societies.

In the night of July 6, **Isabella Rossellini's** glamour will unveil the subtle art of animal seduction, performing a GREEN PORNO show. The actress will ironically discuss about animal coupling together with John Bohannon, a Science reporter, Allan Reiss, a psychiatrist at the Stanford University, Tom Flamson, a biologist and evolutionist, Elisabetta Visalberghi, a primatologist, Salvatore Attardo, a linguist of the A & M University, and Piergiorgio Odifreddi, a mathematician.

In Palazzo Carignano's court yard, where the first Italian parliament was settled, the theatre performance NANOMETAMORFOSI will capture the audience attracting them to the nanotechnology discoveries: on July 3 there will be two performances, on 4 and 5 only repeats. Many appointments will be organised for children. The Atrito clown will propose CIRCOSCIENZA, a series of games and interactive experiments where mathematics and physics are applied to circus activities. In the Riding School of Cavallerizza Reale, **Valter Malosti** will read an unknown selection of scientific passages by

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Primo Levi, chosen by Domenico Scarpa. IL SEGNO DEL CHIMICO: DIALOGO CON PRIMO LEVI (the mark of the chemist: a dialogue with Primo Levi) (performed on July 2, a double repeat on 3 and on the night of 4) is a mixture of languages and experiences where a chemist, a writer and a witness from Auschwitz share their experiences. During ESO2010, Torino city centre will turn into a workshop. Games, interactive experiences, exhibitions and installations will put science on display addressing children and young people: you can have fun with Einstein team-playing BRAEINSTEIN. SCERVELLATI CON ALBERT (puzzle over with Albert). The square will be used as a gambling table for the nature friendly game IL GIOCO DELL'OCA VERDE (snakes and ladders). In the Palazzo della Regione - Piazza Castello, the ACCENDI IL CERVELLO (light up your brain) exhibition will highlight the most mysterious and complex item that science ever studied: human brain. Thanks to interactive installations all the mechanisms of sleep and dreams will be shown. Moreover, a series of tests will offer the public the opportunity to widen their awareness of both emotional and cognitive intelligence and learning ability.

At Circolo dei Lettori the exhibition TO BET OR NOT TO BET *FAITES VOS JEUX* simulates the roulette and other gambling activities letting visitors be familiar with mathematical laws governing the calculus of probability. On the same topic, the conference MATEMATICA E MEDICINA DEL GIOCO D'AZZARDO, (maths and medicine in gambling activities) will investigate about the dangers of gambling and its pathologies thanks to Paolo Canova, a mathematician, Diego Rizzuto a physician, Emanuele Bignamini, the director of Torino ASL addiction department and Roberto Fiorini, an educator.

Moreover in Piazza Carlo Alberto, the Circolo dei Lettori will organize a space where authors, special guests and scientists will meet. From July 2 to 6 19:00 – 20:30 Jean-Patrick Connerade, ex President of Euroscience, will lead a traditional event started in Munich in 2004: SCIENCE MEETS POETRY. Together with the French street actor Benjamin Delmàs, Connerade will meet scientific oriented poets coming from all over the world. And still, in Piazza Carlo Alberto the workshops SCIENZE DELLA TERRA (science of the earth) and the SCIENZIATO PUZZLE (puzzle scientist) will take place; in the National library the ESPLORIAMO LO SPAZIO (let's explore space) show will be organized, by Thales Alenia Space dedicated to the comments made by the astronomer **Giovanni Virginio Schiapparelli**. In the National Cinema Museum the STEREOSCOPI dell'OTTOCENTO (XIX century stereoscopes) will project historical images linked to entertainment; in the Regional Museum of Natural Sciences the exhibition BIOTECHE: VIAGGIO NEL MONDO BIOTECNOLOGICO (a trip in the biotechnology world) will lead visitors to DNA test labs letting them discover the mysteries of genomes through bioinformatics.

Between July 3 and 7 Torino will be a centre of gravity for your mind!

All appointments and exhibitions are free. A detailed programme will be provided.

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**“Passion for Science”
PROGRAMMES FOR ESOF2010**

The guiding thread of the 2010 Forum is **Passion for Science**, a key tool to sustain and relaunch the growth and development of our society nowadays. This passion will take tangible form in the various programmes of ESOF 2010.

Scientific Programme

105 sessions, 1 opening lecture, 4 plenary lectures, 18 keynote lectures 454 speakers from 39 countries from all over the world: these the numbers of ESOF2010. This is the pulsing heart of The Congress and its contents reveal the real significance of this fourth edition. The Lingotto will host conversations, seminars, meetings and debates covering various fields of knowledge and focusing above all on the problems of scientific communication and the relationship between science and society. The guest speakers will include high calibre figures from the international world of science, including a number of Nobel prize winners. They will speak at the plenary sessions and engage in a packed programme based on the special themes chosen for 2010:

1. Sustainable life and moving
2. Evolution, development and adaptation of organisms
3. Moving into and up from our quantum world
4. Responding to global needs
5. Frontiers in energy research
6. Science, knowledge and belief
7. Memory and learning in organisms, social and artificial systems
8. Languages, cultures and variability
9. Integrating science with health care
10. Policy – what follows?

Career Programme

ESOF2010 Career Programme will last three days (July 3-4-5) with 24 sessions, 84 speakers coming from 22 countries. The organisation will also include young researchers; about 400 will come from the Marie Curie programme supported by the European Commission, 100 researchers are from Luxembourg, 50 from Turkey and 50 from Lindau programme. Science buses will help the organisation, driving 300 resources from Ireland, Germany, France, Austria, Belgium, Sweden and Italy. The UNESCO will support about thirty guests from European Eastern countries and from Maghreb, Torino Club Zonta will support two members and over thirty grants will be offered by France.

The career programme will be opened with a special session by Mariano Gago, Minister of Science, Technology and Higher Education in Portugal. The protagonists of ESOF2010 will also include young researchers and graduates who will be offered an important opportunity to discuss their ideas and experience, as well as the possibility to explore various openings leading to an international career, whether in academia or in industry.

The focus themes will be 8:

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1. Developing your scientific career: practical aspects
2. Training and research conditions of doctoral and post-doctoral researchers
3. European policies for young researchers - Lisbon agenda
4. Academic and non academic careers
5. Researchers mobility
6. Science publishing and new media
7. Science Communication skills
8. Entrepreneurial skills

- **Science Bus**

In order to support young researchers to come to the event several accommodations will be provided for free, such as the trip and the stay in Torino, thanks to the support by national research associations (*Science Bus* programme).

- **Pizza with the Prof**

an informal lunch with top-notch scientists, where participants meet in front of a slice of pizza, and ask the "Profs" questions about their careers, their studies and their future challenges: it will take place on July 3-4-5.

- Moreover an **Internet Platform** dedicated to young people will be launched on the website in spring 2010. It will use the most innovative software tools for on line debates, consultations and collaborative document writing.

Science to Business

17 showcase sessions dedicated to business and potential entrepreneurs and 87 speakers from 15 countries. The **Science to Business** initiatives will touch on themes linked to applied research and on the development opportunities available for highly innovative businesses, with a particular emphasis on the areas of excellence in and around Turin. The programme will also propose a new specific session format, the showcase, where 17 non profit organisations, universities and incubators present innovative activities or prototypes.

Seminars will focus on seven key themes:

1. Intellectual property management (IPM)
2. University - Industry relationship
3. Public- private research integration
4. Open Innovation
5. The Knowledge triangle: education-research-innovation
6. International, national and regional policies
7. Incubators, spin-offs, business angels, venture capital

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A brand new event will take place on July 6: the European Research&Business **Speed Dating**, a partnering event organised to foster collaborative research between science and industry. These one to one meetings will facilitate the dialogue between those with new ideas and those who might be able to put them to practical use.

- **European Research & Business Speed Dating**

News at ESOF2010, organized by Torino Chamber of commerce and Unioncamere Piemonte together. An occasion for the participants for a speed date with the representatives from the world of science and business, to facilitate the dialogue between young researchers and institutions, their new ideas and the opportunities to make them real.

Science in the City

A series of performances, events, exhibitions and various forms of public entertainment will take place throughout the city. A relevant section of Science in the City will be held within the Lingotto Venue, other activities will be in the Torino city centre: streets, squares, theatres and museums, will be brought to life until late in the evening. Popular talks anchored by famous scientists and TV journalists, music shows and other forms of entertainment will be on stage in the historical square Piazza Castello.

Research & Innovation Exhibition

The Exhibition Programme will be hosted in the **Innovation Arena**, a widely varied and attractive showcase on scientific research and technology in Europe that will take place in the exhibition areas of Lingotto Centre: companies, research centres, universities, associations, communications agencies and media representatives will all have stands. Visitors will also be able to visit projection rooms and areas reserved to reading and presentations: free access wi-fi will be available throughout the area. In the **Innovation Arena** an **Exhibition Programme** will take place; that is a programme of sessions and presentations by both exhibiting companies and institutions that will provide for scientific customized services.

WebEsof

WebESOF is one of the most exciting new features of ESOF2010 and offers a unique chance to further the spread of scientific knowledge worldwide, with a special emphasis on the young and on the most disadvantaged sectors of the population. The project will be developed thanks to the collaboration of Torino Politecnico and will be freely available to all interested parties. Using tailor-made software it will be possible to follow the main conferences in real time, interact with the Forum participants, download videos of all sessions.

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EUROSCIENCE AND ESOF

THE HISTORICAL BACKGROUND

Euroscience, which is based in Strasbourg (France), was founded in 1997 and numbers 2330 members from over 40 countries. The association is open to researchers, politicians, teachers, graduates and postgraduates, engineers, industrialists and in general anyone interested in science and technology. Members of Euroscience include European scientists from a wide range of fields, including human and social sciences, the public and private sector, universities and research institutes.

The Association's key aims are:

- 1) to provide an open forum for debates on science and technology in Europe
- 2) to strengthen the links between science and society
- 3) to create a space for the integration of science and technology in Europe
- 4) to influence international scientific and technological policies.

In 1999 Euroscience set up an interdisciplinary and Pan-European meeting area to facilitate open dialogue and an exchange of ideas on the world of science: the Euroscience Open Forum (ESOF).

The first ESOF was held in **Stockholm** in 2004 (www.esof2004.org): two years later it was held in Munich (www.esof2006.org) and in 2008 in Barcelona (www.esof2008.org). The choice for 2010 is Turin, a city characterised by its dynamism and liveliness, its sensitivity to science and research, as well as its efficiency and level of preparation to host a Forum of such importance.

Highlights of previous editions:

Esof 2004 Stockholm

- Over 1800 participants in the scientific programme
- 247 speakers
- 350 accredited journalists

Esof 2006 Munich

- Over 2100 participants in the scientific programme
- 423 speakers
- 485 accredited journalists

Esof 2008 Barcelona

- Over 2500 participants in the scientific programme
- 452 speakers
- 511 accredited journalists

After Turin, the next ESOF will be held in **Dublin** in 2012.

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KEY SPEAKERS AT ESOF2010

PETER AGRE

Nobel Prize in Chemistry – President AAAS

Born in 1949 in Minnesota, he obtained his medical doctorate in 1974 from Johns Hopkins in Baltimore where he was appointed professor in 1981. Having worked on the characteristics of cell membranes, he discovered aquaporin, an integral membrane protein that is permeable to water. In 2003 he was awarded the Nobel Prize in Chemistry for this discovery together with Roderick MacKinnon. Since February 2009 he has been President of the American Association for the Advancement of Science (AAAS).

ANTONIA SUSAN BAYATT

Writer and poet

Antonia Susan Bayatt, known as A.S. Bayatt, is an English writer and poet, winner of the *Booker Prize*. In 2008 the famous London magazine *Times* lists her among the greatest fifty British writers since 1945. Her real name being Antonia Susan Drabble, she studied at the *The Mount School* in York, at the *Newnham College* in Cambridge, at *Brynn Mauur* in the Us. And at *Somerville College* in Oxford. She was lecturer at the London department for Extra-Mural studies, at the Central Saint Martins College of Art and Design and at the London University College. Among her most popular novels: *Possession* (1990), *Angel* and *Insects* (1992) and *Babel Tower* (1996). Her latest works highlight her love for science, especially cognitive science and zoology.

ANGELIKA BRANDT

Zoologist – Antarctic specialist

Her first thesis on the ultrastructure of an isopod's sensory organ and her dissertation on the origin of Antarctic Isopoda were awarded by the Ministry for Science and Technology. Brandt has taken part in 12 expeditions to the Arctic and Antarctic. In December 1995 she became professor at the University of Hamburg and since 2004 she has been Head of the Zoological Museum. In 2008 she was awarded the SCAR Medal for research on the Antarctic. Her research focuses on the evolution, biodiversity and ecology of peracarid crustaceans.

ELENA CATTANEO

Stem Cell Researcher

She is Director of the Laboratory of Stem Cell Biology and Pharmacology of Neurodegenerative Diseases at the Department of Pharmacological Sciences at the University of Milan, and co-founder and first appointed Director of UniStem, the Centre for Stem Cell Research of the University of Milan. Prof Cattaneo's studies on neural stem cells and Huntington's disease saw her awarded "Le Scienze" Prize for Medicine and a Gold Medal from the President of the Italian Republic in 2001. In 2005 she was awarded the Marisa Bellisario and Chiara D'Onofrio prizes, and in 2006 she was nominated Cavaliere del Lavoro.

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MARIE-PIERRE DE BETHUNE

Biologist

Marie-Pierre de Béthune had her learning career as a biologist at the Catholic University in Louvain (Belgium). After her PhD in molecular biology, she devoted herself to biotechnologies, first at Medgenix and later, since 1994, in Tibtec, where during the latest 15 years, she successfully led projects in the domain of HIV treatments. She was recently appointed *Senior Scientific Expert* for Johnson and Johnson. Doctor Béthune is the author of over 150 publications and presentations concerning antibiotics and HIV treatment.

CARLOS DUARTE

Marine biologist

He was elected President of the American Society of Limnology and Oceanography. He has conducted research for the Spanish Council for Scientific Research (CSIC) since 1989, and since 1999 he has worked at the Mediterranean Institute for Advanced Studies in Mallorca. His work lays the foundations for further research on global climate change; as the leading researcher on marine ecosystems, Duarte was awarded the National Research Prize in Madrid at the end of 2007.

ERNST FEHR

Behavioural economist

He is Director of the Institute for Empirical Research in Economics at the University of Zurich. His research focuses on the evolution of human cooperation and sociality, in particular on fairness, reciprocity and bounded rationality. He is renowned for his important contributions to the new field of neuroeconomics, as well as to behavioural finance and experimental economics.

SERGE FENEUILLE

Physique and Egyptologist

First Director of the Aimè Cotton Laboratory of Paris later General Director of CNRS (National Centre of Scientific Research), interested in archaeology has turned up again on the scene of the academic research as a member of the CNRS Egyptology team, joint archaeological missions in Egypt, Sudan and in particular made part of the French mission at Saqqarah. At the moment he is the president of the Ecole Polytechnique and director of NSM ABN AMRO.

ANDREA FERRARI

Nanotechnology engineer

Andrea Ferrari is a lector and researcher for Nanotechnologies at the Royal Society University Department of Engineering in Cambridge. He is also head of the Group analysing Nano materials. He was awarded the Marie Curie Excellence prize for his studies on carbon nanotechnologies.

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JULIA FISCHER

Ethologist - Primatologist

She is Head of the Research Group on Cognitive Ethology at the German Primate Centre in Göttingen. Her fields of research include: vocal communication in primates and other mammals, future causes of changes in vocal production, neurological basis of the perception and understanding of acoustic signals, cognitive fundamentals of communication, the evolution of speech.

TECUMSEH FITCH

Cognitive psychologist and linguist

Now lecturer at the School of Psychology at the University of St. Andrews, he studied biology, linguistics and cognitive science at Brown University and Harvard University. His research interests include the evolution and neural basis of cognition and communication; biolinguistics; bioacoustics, physiology and perception of vertebrate vocalization, including human speech; the evolution of animal communication systems; aesthetics.

RAGHAVENDRA GADAGKAR

Zoologist

During the past 25 years, he has established a school of research on animal behaviour, ecology and evolution. He studies the origin and evolution of cooperation in animals, especially in social insects, such as ants, bees and wasps. Gadagkar is Professor at the Centre for Ecological Sciences at the Indian Institute of Science. He has published over 200 research papers, articles and two books.

JEAN-CLAUDE GUEDON

Chemist

Jean-Claude Guedon studied Chemistry at the Clarkson University of Potsdam (New York) and he obtained his PhD in History of Science at the University of Wisconsin. He has been a professor at the University of Montreal since 1973 and he is an old member of the Internet Society. He gave his professional advice to several government institutions. Among these, it is to be mentioned the French Ministry of Research, for the online projects of human and social sciences.

MOHAMMED HASSAN

Physicist and politician

He is President of the African Academy of Sciences (AAS), Executive Director of the Academy of Sciences for the Developing World (TWAS) in Trieste, and Secretary General of the Third World Network of Scientific Organizations (TWNISO). A former professor and dean of the School of Mathematical Sciences at the University of Khartoum, Sudan, he has received awards from Brazil and Italy. His research areas include physics of wind erosion and sand transport, and theoretical plasma physics.

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SHEILA JASANOFF

Specialist in scientific and technological studies

She is Professor of Science and Technology Studies at Harvard University's John F. Kennedy School. His research concerns the role of science and technology in the law, politics, and public policy of modern democracies, with a particular focus on the challenges of globalization. She has written and lectured on problems of environmental regulation, risk management, and biotechnology in the United States, Europe, and India.

TOM KIRKWOOD

Gerontologist

He is Professor of Medicine and co-Director of the Institute for Ageing and Health at the University of Newcastle and Director of the Centre for Integrated Systems Biology of Ageing and Nutrition. His research fields include the science of ageing and understanding how genetic and non-genetic factors, like nutrition, affect longevity and health in old age.

VLADIMIR KUTCHEROV

Petroleum engineer

Member of the Royal Institute of Technology, Stockholm, Kutcherov is a well-known assertor of the controversial theory of the abiotic origins of oil which recognizes that oil is a primordial material of deep origin which has been erupted into the Earth's crust: it is not a "fossil fuel" and has no intrinsic connection with any biological detritus in the sediments.

FELICITAS PAUSS

Theoretical physicist

She received her PhD degree in Theoretical Physics and Mathematics at the University of Graz (Austria) in 1976. She continued her research at the Max-Planck Institute in Munich (Germany), Cornell University (USA) and CERN, before she was elected professor at ETH Zurich in 1993. From 1997 to 2007 she was the director of the Institute for Particle Physics of ETH Zurich. Since January 2009 she is in charge of coordinating CERN's external relations. Her research activities concentrate on two main research fields: particle physics at the high-energy frontier and astroparticle physics.

GIACOMO RIZZOLATTI

Neurologist

Giacomo Rizzolatti was born in Kiev (Ukraine) and he studied at Padua, where he graduated in Medicine and specialized in Neurology. After a three year period in Pisa, his università career mainly took place at the Parma University, where he is teaching Human Physiology. He is popular all over the world as his group of research discovered the "mirror" neurons in the monkey front and parietal cortex. He was President of the European Brain and Behaviour society and the society for Neurosciences.

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KURT WÜTHRICH

Nobel Prize in Chemistry

Born in Switzerland in 1938, he studied chemistry, physics and mathematics at the University of Berne. After his Ph.D. he moved to the University of California, Berkeley, and then to Bell Telephone Laboratories. On returning to Switzerland, he became Professor of Biophysics at ETH Zurich. He currently heads a laboratory both at ETH and at the Scripps Research Institute in La Jolla, California. Wüthrich is one of the founders of nuclear magnetic resonance; in 2002 he was awarded the Nobel Prize in Chemistry for his contributions in this field.

ADA YONATH

Nobel Prize in Chemistry

Born 1939 is the current director of the Helen and Milton A. Kimmelman Center for Biomolecular Structure and Assembly of the Weizmann Institute of Science. In 2009, she received the Nobel Prize in Chemistry along with Venkatraman Ramakrishnan and Thomas A. Seitz for her studies on the structure and function of the ribosome, becoming the first Israeli woman to win the Nobel Prize. Yonath's work focuses on the mechanisms underlying protein biosynthesis, by ribosomal crystallography, a research line she pioneered over twenty years ago.

ANTON ZEILINGER

Quantum physicist

He is currently Professor of Physics at the University of Vienna and also Director of the Institute for Quantum Optics and Quantum Information at the Austrian Academy of Sciences. He is regarded as a pioneer in the new field of quantum computation and is renowned for having achieved teletransportation with photons. He has received many awards for his scientific work, the most recent being the King Faisal Prize in 2005 and the first Newton Prize of the IOP in 2007.

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THE SCIENTIFIC PROGRAMME: PLENARY AND KEYNOTE LECTURES

Plenary and Keynote Lectures are one of the most prominent features of ESOF2010. They give the audience a unique chance to hear major scientific personalities speak about their life and work. What is so fascinating about their field? Why should others care about this research too? And what's in store for the next generation of scholars that will work in this area?

PLENARY LECTURES

There will be one Plenary Lecture every day from July 3 to 6, plus an Opening Lecture during ESOF2010 Opening Ceremony. **Plenary Lectures are open to the general public**

Friday, July 2, 2010 Opening Lecture

Julia Fischer

Saturday, July 3, 2010

Kurt Wüthrich

Sunday, July 4, 2010

Peter Agre

Monday, July 5, 2010

Anton Zeilinger

Tuesday, July 6, 2010

Ada Yonath

KEYNOTE SPEAKERS

Keynote Speakers

There will be four Keynote Lectures in two parallel sessions every day from July 3 to 6, and 2 on July 7.

Saturday, July 3, 2010

Elena Cattaneo

Ernst Fehr

Sheila Jasanoff

Jean-Claude Guédon

Sunday, July 4, 2010

Tom Kirkwood

Felicitas Pauss

A. S. Byatt and Giacomo Rizzolatti

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Monday, July 5, 2010

Angelika Brandt
Andrea Ferrari
Tecumseh Fitch
Raghavendra Gadagkar

Tuesday, July 6, 2010

Marie-Pierre de Béthune
Carlos Duarte
Mohamed Hassan
Vladimir Kutcherov

Wednesday, July 7, 2010

Sam Auinger
Serge Feneuille

PREVIEW OF THE SCIENTIFIC PROGRAMME

A small selection of the 105 sessions composing ESO2010 Scientific Programme. For further information you can check for uptakes at <http://www.esof2010.org/programme>

Saturday, July 3, 2010

1. When the final hour comes: The debate on end of life care and the media narratives in the international context.

Organizer: Emiliano Feresin, SISSA, Trieste, Italy

2. Food allergies - the enemy within.

Organizer: Doris Florian, EC JRC Institute for Reference Materials and Measure, Geel, Belgium

Sunday, July 4, 2010

3. Feeding the world in times of global changes. Can science and technology help find sustainable solutions to feed 9 billion people?

Organizer: Alessandra Bendiscioli, European Molecular Biology Organization, Heidelberg, Germany

4. The promises of gender medicine for women and men. How incorporating sex and gender aspects in biomedical research will lead to a better health care.

Organizer: Ineke Klinge, Maastricht University, The Netherlands

5. Taming the wind: a strategic energy option for Europe and the world

Organizer: Eamonn Cahill, Office of the Chief Scientific Adviser, Dublin, Ireland

Monday, July 5, 2010

6. How much can robots learn?

Organizer: Katrin Weigmann, Bernstein Network Computational Neuroscience, Göttingen, Germany

7. Towards the origin of the universe

Organizer: Alba Zanini, INFN, Torino, Italy

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8. The role of human mobility in shaping epidemic patterns: from face-to-face interactions to air travel

Organizer: Vittoria Colizza, ISI Foundation, Torino, Italy

Tuesday, July 6, 2010

9. The science underpinning climate change prediction and policies

Organizer: Tajinder Panesar, Institute Of Physics, London, UK

10. How the electricity transmission grid must evolve to integrate more renewable energy sources

Organizer: Nigel Taylor, European Commission, JRC

11. Biotechnologies and democracies

Organizer: Giuseppe Testa, European Institute of Oncology, Milan, Italy

12. More Years – More Life. What do we learn and gain as we age? What is the potential of development for aging individual and society?

Organizer: Katja Patzwald, Jacobs University Bremen, Germany

Wednesday, July 7, 2010

13. Regenerative Medicine: the long winding road from promise to reality

Organizer: Arantxa Sanz, Institute for Bioengineering of Catalunya (IBEC), Spain

14. Neuroscience, technology and the new image of man. The relations between natural brains, artificial brains and human beliefs.

Organizer: Giorgio Innocenti, Karolinska Institutet, Stockholm, Sweden

15. Ten years of human presence on the International Space Station

Organizer: Cristina Olivotto, European Space Agency, The Netherlands

16. The missing mediator: Science debates in a knowledge based society

Organizer: Hanns Neubert, European Union of Science Journalists' Association, Hamburg, Germany

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ESOF2010 STEERING COMMITTEE

It is the International Committee, generally supervising the whole event.

Sir Harold Kroto, *Honorary Chair*

Nobel Prize for Chemistry in 1996, Florida State University

Enrico Predazzi, *Chair*

Department of Theoretical Physics, University of Torino

Ingrid Wüning Tschol, *Vice President*

Robert Bosch Stiftung, Stuttgart

Jean Pierre Bourguignon

Director, Institut des Hautes Études Scientifiques, Bures-sur-Yvette, France

Philip Campbell

Managing Editor, *Nature*, London

Gail Cardew

Vice-President, Euroscience; Director of programs, Royal Institution, London

Patrick Cunningham

Scientific Counsellor for the Irish Government, Trinity College, Dublin

Nevio Di Giusto

President and Managing Director, Centro Ricerche Fiat, Torino

Piero Gastaldo

General Secretary, Compagnia di San Paolo, Torino

Michael Grewing

Emeritus Professor at Institute for Astronomy and Astrophysics, University of Tuebingen, Germany

Tony Mayer

Pro-rector, Nanyang Technological University, Singapore

Felicitas Pauss

Public Relations at CERN, Geneva

Giacomo Rizzolatti

Director at the Department of Neurosciences, University of Parma

Peter Tindemans

Member of Euroscience Executive Committee, the Hayes

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Josee van Eijndhoven
Rector Rotterdam University

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THE ESOF2010 PROGRAMME COMMITTEE

This international committee will evaluate proposals, select events, and invite keynote speakers.

Helga Nowotny *Chair*

Vice President, European Research Council

Carl Johan Sundberg *Vice Chair*

Department of Physiology and Pharmacology, Karolinska Institutet, Stockholm, Sweden

Aldo Fasolo *Scientific Secretary*

Professor of Developmental Biology, Università di Torino, Italy

Martin Andler

Professor, Université Versailles-Saint-Quentin, Paris, France

Vittorio Bo

Director, Festival della Scienza di Genova, Italy

Patricia Boya

CIB-CSIC (Centro de Investigaciones Biológicas – Consejo Superior de Investigaciones Científicas), Madrid, Spain

Massimiano Bucchi

Professor of Science and Technology in Society, Università di Trento, Italy

Gail Cardew

Euroscience Vice President; Head of Programmes, Royal Institution, United Kingdom

Jean-Patrick Connerade

Emeritus Professor of Physics, Imperial College, London, United Kingdom

Sally Duensing

Visiting Professor, King's College, London, United Kingdom

Alain Peyraube

Director of Chinese Linguistics Department, Ecole des Hautes Etudes en Sciences Sociales (EHESS), Paris, France

Albert H. Teich

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Yuri Tschinkel

Professor and Chair, Department of Mathematics, Courant Institute of Mathematical Sciences, New York University, USA

Nüket Yetis

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Ivan Krastev

Chair of the Board, Programme Director, Political Research Centre for Liberal Strategies, Sofia, Bulgaria

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TORINO, A CITY OF SCIENCE

Dubbed “the Laboratory City”, Torino was the birthplace of many Italian industries: automotive, aeronautics, fashion and industrial design, cinema, publishing, and telecommunications. Nowadays, Torino is still a centre of excellence in most of these areas.

A centre of ancient and renowned cultural institutions, such as the University (founded in 1404), the Academy of Sciences (1757), and the Polytechnic (1859), the Savoy capital city has proven to be a dynamic crossroad of ideas and experiments, intuitions and ideas that have led the way to fundamental discoveries. **Benjamin Franklin's** early studies on electricity were presented in Torino, as was **Charles Babbage's** first computer (1840). Here, thanks to Amedeo Avogadro, the modern concepts of **molecule and atom** were developed (1811), and the **electric engine** was invented by Galileo Ferraris (1888). **Nitro-glycerine** was first synthesized in Torino by Ascanio Sobrero (1846), and **Charles Darwin's** Theory of Evolution was introduced to Italy (1864). Three Nobel Prize winners for medicine, **Salvador Luria**, **Renato Dulbecco** and **Rita Levi Montalcini**, received their scientific education at the Torino school of histologist Giuseppe Levi, active in 1930s and 1950s.

Science and technology can count on industrial and public research centres such as The National Institute of Nuclear Physics, the National Institute of Astrophysics, the Institute for the Research and Cure of Cancer, and the National Council of Research (CNR).

The headquarters of the National Metrological Institute are located in Torino, as is Thales Alenia Space Italia, the industry that produced many of the spacecrafts exploring the solar system and deep space. Torino's Astronomical Observatory is a leading centre in astrophysics and cosmology. New centres of excellence are rapidly developing in the most promising research sectors: oncology, neuroscience, genetics, and nanotechnologies.

With its museums and renowned cultural events, Torino is ready to offer ESOE its experience in communicating science to the general public. Cinema is active as ever with the *Film Commission*, the *Multimedia Park*, important International Festivals such as the *Torino Film Festival*, and *The National Museum of Cinema* located inside the Mole Antonelliana, symbol of the city. The second most important *Egyptian Museum* in the world, after the one in Cairo, is in Torino, as are many others, like the *Museum of Oriental Art (MAO)*, the *Regional Museum of Natural Sciences*, the *National Museum of Artillery*, the *National Museum of the Automobile*, the *Cesare Lombroso Museum of Criminal Anthropology*, just to cite a few. Finally, Torino's role as a major publishing centre is underlined by the annual *International Book Fair*.

SITE VISIT PROGRAMME

The Site visit programme has been developed to offer direct contact with local industrial and research excellences and moreover participants will be able to visit the research centres: CERN in Geneva (on the French-Swiss border) and JRC in Ispra (Lake Maggiore, about 2 hours far away from Torino). As it will take time to go to Geneva and Ispra, the two visits will be organised just after the end of ESOE2010, on July 8 and 9, one day each. All the other Site Visits will be held in Torino or near the congress from 2 to 5.30 P.M.

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SECTORS OF SCIENTIFIC AND TECHNOLOGICAL EXCELLENCE IN PIEDMONT

Automotive. Piedmont is one of the most important centres of the automotive industry worldwide: here the hydrogen bus, the first Italian automated underground transit system, and high speed trains were designed. The newly renovated Torino Caselle is one of the most advanced airports in Europe. Some well known names in the field are FIAT, one of the major auto companies in the world; IVECO, top manufacturer of industrial vehicles; Alstom railway company in Savigliano; Giugiaro and Pininfarina industrial design; the FIAT Research Centre (www.crf.it), winner in 2002 of the Economist Innovation Award for the electronic system of diesel fuel injection common rail. Major educational initiatives include the University degree in motor vehicle engineering, and the Department of Civil Hydraulics, Transport and Infrastructures (DITIC) at the Torino Polytechnic.

Information and Communication Technology. Piedmont is at the forefront of research and development of new technologies: 20% of the regional research centres is specialised in ICT, starting with the Telecom Italia research centre and the Mario Boella Institute of Advanced Studies in Telecommunications. Torino is also the home of Torino Wireless (www.torinowireless.it), the Piedmont technological district that integrates research, enterprise and capital ventures. Primary foreign companies have found fertile ground for their research offices.

Life Sciences. Piedmont is at the cutting edge in life sciences and biotechnologies. The region hosts over 340 firms which operate in these sectors, in addition to a science and technology park dedicated to life sciences, and the Bioindustry Park in the Canavese region (www.bioindustrypark.it).

Nanotechnologies. Torino and Piedmont are an area of great international potential in the sectors of micro and nanotechnologies, closely tied to the most important universities and research centres in Italy, France and Switzerland. The Torino Polytechnic has set up a graduate degree in Micro and Nanotechnologies for Integrated Systems (www.master-nanotech.com), while the University of Torino has launched the Centre of Excellence NIS – Nanostructured Interfaces and Surfaces (www.nis.unito.it)

Aerospace. Piedmont is the Italian region with the highest concentration of aerospace companies, some of which are able to monitor the construction of an aeroplane from its design to the mechanical and technological stage. The aerospace sector in Piedmont represents a significant component of the continually growing regional economy, with over 100 companies, 9,000 employees and an annual turnover of 1.5 billion Euros.

Design. Local industrial design has been famous all over the world since the 1960s, thanks to names like Pininfarina, Bertone and Giugiaro. Piedmont has given birth to eclectic designers and revolutionary projects, talented figures at the service of industry, who envisioned enormously successful products: cars, fashionable objects for daily use such as the legendary typewriters "Lettera22" and "Lexicon80" by Olivetti, as well as household articles by Alessi, the first vacuum sealed coffee packages by Lavazza, and the brilliant advertising by Armando Testa. Some of the most well known brands in the area are Fiat in Torino, Olivetti in the Canavese area and Fila in the Biella area. In Piedmont, transportation, industrial and interior design are driven by one word: emotion. This territorial excellence was instrumental in winning the title of 2008 World Design Capital.

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SATELLITE EVENTS

Within ESO2010 several satellite events have been scheduled by important institutions:

- **Marie Curie Conference 2010**

Organiser: European Commission, DG Research, Directorate T
Lingotto Congress Centre, Hall 500
June 30 – July 2

- **COMMUNIA Conference 2010**

"University and Cyberspace: Reshaping Knowledge Institutions for the Networked Age"
Organiser: NEXA Centre for Internet & Society (Politecnico of Torino) and Berkman Center for Internet & Society (Harvard University)
Torino Polytechnics Great Hall
June 28 – 30

- **ANPRI Workshop**

"Towards fair indicators of research and research evaluation: the state of the art"
Organiser: ANPRI (National and Professional Association for the Research)
Lingotto Congress Centre, London Hall
July 2

- **Annual Meeting of the Associazione Italiana Donne e Scienza**

Organiser: Associazione italiana donne e scienza
Regional museum of Natural Sciences
July 1 – 2

- **SjCOOP Mentors Training Workshop**

Organiser: World Federation of Science Journalists
Polytechnics - Lingotto
June 28 – July 2

- **European University Students Meeting**

"Toward a European Union of Knowledge"
Organiser: European University Students Meeting Committee
June 30 – July 4

- **Summer school for PhD students SCS (Science, Communication, Society)**

Organiser: Centro Interuniversitario Agorà Scienza
University of Torino Dental School Great Hall, Lingotto
July 1 – 6

- **PRIN project - Innovative techniques for the definition of the degradation state of metals**

Organiser: Torino Polytechnics
Torino Polytechnics Great Hall, Lingotto,
July 7

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THE TOPESOF ASSOCIATION

ESOF2010 is organised by **TopESOF – Torino per ESOF**, an association set up by three major Italian institutions which was created in July 2007.

Compagnia di San Paolo is one of the largest private foundations in Europe today. The Compagnia pursues activities of public interest and social utility and has always supported the output and diffusion of scientific culture. The Compagnia works not only by supporting projects, but also holds a proactive role with its own organisations, programmes, publications and competitions.

The activities of the foundation are sponsored by the assets deriving from that heritage that it has the duty to hand on future generations. The sectors in which the Compagnia operates are: science, economy and legal research; art; heritage preservation and development; cultural and stage activities; health care; assistance to the weakest social groups. Together with these areas, the Compagnia also deals with interdisciplinary activities, necessary as replies to a contemporary complex world.

www.compagnia.torino.it

Centro Interuniversitario Agorà Scienza dell'Università degli Studi di Torino is committed to the promotion and communication of scientific culture (shortly it will be transformed into an Interuniversity Centre with the participation of the four universities located in the Piedmont region). It aims at making researchers aware of their responsibility towards the public, therefore training them to share their research, and drawing citizens into the debates on scientific research with the organization of innovative events. The mission of Universities is to open up to the world and be ready to welcome any form of cultural and learning activities”..

www.agorascienza.it

Associazione CentroScienza onlus is well known by both institutions and the community, not only at local level, for its ability to organise and manage events for the promotion of scientific and technological culture. Some of its best known events include the famous series of *GiovedìScienza* conferences (“Science Thursdays”), the co-ordination and promotion of all the activities during the *Week of Scientific Culture* in Piedmont, the organization of exhibitions like *MondoBit* (“Bit World”), and resident and outreach laboratories in the schools. Since 1997 CentroScienza Onlus has become part of ECSITE, the European network for science and museums, carrying out International projects such as “Decide” and “Places”: some of them, still ongoing.

www.centroscienza.it

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FOR SCIENCE IN THE CITY PROGRAMME, OUR PERSONAL SPECIAL THANKS GO TO:

- The National Library
- Circolo dei Lettori
- The National Museum of the Cinema
- The Regional Museum of Natural Sciences

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