This international meeting at the newest frontiers of Psychiatry provides for participation by leading scientific figures of international renown, including Nobel Prize winner Kary Mullis. The conference aims to address, among other topics, results obtained from the project financed by the Marche Region on Bio-Molecular Markers in Psychiatry, which is now recognized, by the Region, as a Project of Excellence. The data collected have not only generated the possibility of grading bipolar and depressed subjects biochemically for the first time in history; they have also pointed toward a possibility of directing the nutrition of those individuals who suffer from this devastating disease affecting the “person” and constituting a social phenomenon whose massive incidence over the next 20 years is forecast by WHO. The Project of the Marche Region has achieved results that can contribute a diagnostic laboratory tool sharpening the diagnostic precision of psychiatrists and thus drastically reducing the deleterious effects of incorrect therapy.

The conference is also an extraordinary opportunity to bring together most of the members of the Quantum Paradigms of Psychopathology (QPP) group. The primary purpose of QPP is to explore the relevance of quantum physics to the most sensitive processes of the abnormal brain.

The concept of mind as a quantum field phenomenon has been under study since the final decades of the last century: Pioneers such as physicists Hiroomi Umezawa, Kunio Yasue, and Giuseppe Vitiello, mathematicians such as Roger Penrose, and biomedical investigators as Stuart Hameroff, Gordon Globus, and Gustav Bernroider have probed the depths of subatomic structure and its amplifications in search of substrates for macroscopic quantum computation and other capabilities that may correspond to the attributes of the human psyche better than conventional models supported by cognitive neuroscience.

The live conference in Fano harbors the potential to generate a productive, face to face synergy, leading eventually to advances in this new area of scientific exploration.

There will also be masterful discussions of the relationships between theology and psychiatry and between philosophy and psychiatry.
THURSDAY, MARCH 29, 2012 - OPENING PROCEEDINGS

2 pm Official Welcome
Introduction to the Meeting
Raimondo Venanzini and Massimo Cocchi
Chairperson
Emma Rabino Massa
President of the Italian Society of Experimental Biology

2.30 pm Fabio Gabrielli
Professor of Philosophical Anthropology, L.U.de S, University, Lugano, Switzerland
Philosophy and Psychiatry
“The violated body in the era of the invisible man”

3 pm Michele Aramini
Professor of Moral Theology
Catholic University, Milan, Italy
Theology and Psychiatry

3.30 pm Stuart Hameroff
Professor of Anesthesiology and Psychology
Director of the Center for Consciousness Studies at the University of Arizona, Tucson
“Quantum computation in microtubules”

4 pm Giuseppe Vitiello
Professor of Theoretical Physics, University of Salerno
“The dispositive quantum model of brain”

4.30 pm Elio Conte
Professor of Psychophysiology, University of Bari
“Quantum mechanics in the analysis of human perceptual and cognitive functions”

5 pm Paola Zizzi
Professor of Bio Mathematical Sciences Institute
“Paolo Sotgiu” for Quantitative and Quantum Psychiatry and Cardiology
“Incoherent quantum metatolinguaggio and Schizophrenia”

5.30 pm Kary B. Mullis
 Nobel Laureate
“Tunnel Vision”

FRIDAY, MARCH 30, 2012 - ROUND TABLE

9 am Chairpersons
Paolo Castrogiovanni
“What’s right and what’s wrong in psychiatry?”

Lecture
Giovanni Broggi
Professor of Neurosurgery
Fondazione IRCCS Istituto Neurologico C. Besta
“Neuro modulation in psychiatric disorders”

9.30 to 11.30 am Lectures and Discussion
Don Giorgio Giovanelli
[Delegato per il Centro di Bioetica di Fano]
Vincenzo Guaracino
[Letterario]

11.30 am to 1 pm

Special Lectures
Cesario Bellantuono
Professor of Psychiatry, University of Ancona
“Lights and shadows in psychiatric therapy”

Avi Peled
Chief of Dept SM, Mental Health Center
Lecturer, Technion, Israel Institute of Technology
“Clinical brain profiling, a future diagnostic system for psychiatry”

THE BIOMOLECULAR APPROACH TO PSYCHIATRY

2.30 to 3.50 pm

Chairpersons
Antonio Federici
Professor of Human Physiology
Dept of Biomedical Sciences and Human Oncology
University of Bari

Giuseppe Caramia
Professor Emerito di Pediatra Ostipale Sallesi, Ancona

Mark Rasenick
Professor of Psychiatry
Director, Biomedical Neuroscience Training Program
Department of Physiology & Biophysics, College of Medicine, University of Illinois, USA
“Quantitative psychiatry: a future in psychiatry”

Massimo Cocchi
Professor of Nutrition Biochemistry
Institute “Paolo Sotgiu” For Quantitative and Evolutionary Psychiatry and Cardiology

Lucio Tonello
Professor of Bio-Mathematical Sciences
Faculty of Human Sciences
L.U.de S, University, Lugano, Switzerland
“How mathematics can inform the diagnosis of mood disorders”

Alessandro Bondan
Professor of Biochemistry & Human Nutrition
Department of Food Sciences
Faculty of Agriculture, University of Bologna
“Brain Food”

Johanna Assies
Professor of Psychiatry
Department of Psychiatry, Academic Medical Center
Mebargrecht S, Amsterdam, The Netherlands
“Fatty acids and mood disorders”

MOLECULAR CHANGES IN MOOD DISORDERS RESULTS OF THE MARCHE REGION SPECIAL PROJECT

Project Coordinator: Prof. Franco Canestrari
Scientific Project Leader: Prof. Massimo Cocchi

15 to 17.15 pm

 SATURDAY, MARCH 31, 2012

9 to 12 am Quantum Paradigms of Psychopathology (QPP Symposium)

2 to 4 pm Massimo Pregnoiato
Chairperson, QPP Group
Mansoor Malik
Corresponding Secretary, QPP Group

Keynote Address
Gordon Globus
Professor Emeritus of Psychiatry and Philosophy,
University of California at Irvine, USA
“Mol-attunement in schizophrenia”

Ursula Werner
Associate Professor of Psychiatry, Department of Psychiatry, Umeå University and Sunderby Hospital, Umeå, Sweden
“Psychiatry and reality - perception of matter or matter of perception?”

Donald Mender
Lecturer in Psychiatry, School of Medicine, Yale University, USA
“Modes of disidentification: the green epistemology and its not-so-green psychopathologies”

Special Lecture
Efstratios Manousakis
Professor of Physics, Florida State University
“Describing the psycho-physical dynamics of perception using quantum formalism”

Mansoor Malik
Assistant Professor of Psychiatry, Howard University, USA
“Paradigm shifts in mental illness”

Paavo Pylkkanen
Associate professor in philosophy at Skövde University College
“Quantum mind, rainforest realism and the implicate order”

Jack Tuszynski
Professor and Allard Research Chair, Department of Physics, University of Alberta, Canada
“Is there a rationale for designing new psychiatric drugs?”

Massimo Pregnoiato
Professor of Medicinal Chemistry, University of Pavia
“The role of microtubules in psychopathology”

Clinical Aspects
Dott. Raimondo Venanzini, Dott.ssa Raffaella Silvestri
Blood Chemistry Analysis
Dott. Massimo Valenti
Markers of Oxidative Stress
Dott. Serena Benedetti, Dott. Maria Chiara Tagliamonte
Platelet Membrane Markers
Prof. Anna Rita Mastroglcoamo, Dott. Valerio Marconi,
Dott. Sabina Buccheri, Prof. Mark Rasenick

Gene Expression
Prof. Maria Stella Colomba, Prof. Armando Gregorini

Concluding remarks: Eliano Pessa and Paola Zizzi