

Monday, July 30, 2001

10:00-16:00

Registration Center

- * Registration of Participants
- * Distribution of Conference Materials
- * Collection of Final Papers

Monday, July 30, 2001

14:00-17:30

The Aula

Opening Plenary Session: Keynote Addresses

Chair: Prof. William Graham, University of Toronto, Canada
Prof. Greg Andonian, Carleton University, Ottawa, Canada

Welcoming Addresses

by Prof. George E. Lasker, Conference Chairman and
President of The International Institute for Advanced Studies, Windsor, Ontario, Canada

Welcoming Address

by Dr. Sigrun Lang, The Right Honorable Mayor of Baden-Baden, and the President of the
International Baden-Baden Foundation for Culture of Peace & the Dialoguer of Civilizations

The Meaning of an Information-Centric Computer Environment

by Prof. Jens Pohl, Director, Collaborative Agent Design Research Center,
Cal Poly, San Luis Obispo, CA, USA

Sublime-Wisdom Towards Higher Level Synergy and Harmony in Human Activities

by Prof. Ayten Aydin, IIAS, Rome, Italy

Virtual Artistry and Subjectivity in Architecture

by Prof. Greg Andonian, Carleton University, Ottawa, Canada

Meaning in Architecture: A Look at Parody and Caricature

by Prof. Kendra Schank Smith, University of Utah, Salt Lake City, Utah, USA

Historical Existence and the End of History: A Transclassical Systems-Theoretical Reflection

by Prof. Alfred Locker, University of Technology, Vienna, Austria

Why Globalization is Incompatible with Democracy

by Prof. William Graham, University of Toronto, Canada

The Rise and Fall of Agricultural Biotechnology

by Prof. E. Ann Clark, University of Guelph, Ontario, Canada

Tuesday, July 31, 2001

09:00-12:00

The Aula

Conference Plenary Session – (Keynote Addresses)

Chair: Prof. Otto E. Roessler, University of Tuebingen, Germany
Prof. William Graham, University of Toronto, Canada

On the Topology of Primate Vision

by Prof. Gerhard X. Ritter, University of Florida, Gainesville, FL, USA

A Brief History of the Three Stages of Science: The General Theory of Evolution

by Dr. Donald O. Rudin, IIAS, Annapolis, MD, USA

**Human Ontogenetics from the Point of View of General Systems Theory –
A Strategy Proposal for a Century's Project**

by Prof. Alfred Locker, University of Technology, Vienna, Austria

**New Trends in Systems Science as a Consequence of Peculiar Links
Between Several Mathematical Tools**

by Prof. Thiebaut Moulin, E.N.S.T.A., Paris, France

A Mildly Improved Lorentz Transformation

by Prof. Otto E. Roessler, University of Tuebingen, Germany

Maquette and the Divine

by Prof. Albert C. Smith, University of Utah, Salt Lake City, Utah, USA

Contribution to the Theory of General Modeling – Psychological Aspects of Sciences

by Dr. Domenica B. Turkiewicz, Queensland Institute of Medical Research, Brisbane, Australia
and by Dr. Ing. Kazimierz Turkiewicz, Independent Research Scientist, Brisbane, Australia

Universal Liberty and/or Requisite Variety Sustainability Paradox

by Prof. Gary Boyd and Vladimir Zeman, Concordia University, Montreal, Canada

FESTIVE RECEPTION

**Hosted by the Right Honorable Mayor of Baden-Baden
will be held on
Tuesday, July 31, 2001, at 19:00
at the Old City Hall of Baden-Baden.
All Conference Participants and their Companions
are cordially invited**

Tuesday, July 31, 2001

14:00-16:00

Hall A

Symposium on Systems Research in the Arts

Chairs: Dr. James Rhodes, School of Sciences and Mathematics, Shorter College, USA,
and Prof. Jane Lily, Interior Design, Lamar Dodd School of Art,
Univ. of Georgia, USA

Pre-Symposium Interactive Workshop:

A Person-Music System at Work

Africa by Dr. Gertina van Schalwyk, Department of Psychology,
University of Pretoria, South Africa

The workshop involves participants in a people-music whole system and joins the concepts of music, art and space in the exploration of multiple research realities. The workshop takes place in three phases:

1. The participants are given an unstructured drawing task, which they are to complete in total darkness while listening to pre-recorded music
2. The same piece of music is played again, this time in illuminated room, and participants are asked to write down whatever words, images or feelings occur to them through a process of free association.
3. Participants engage in an unstructured group discussion about their experiences during the administration of the technique. During this phase, a facilitator encourages self-disclosure by posing open-ended questions and participants will, together with the facilitator/researcher, explore the research model proposed in the

paper presentation.

Tuesday, July 31, 2001

09:00-12:00

Hall B

Symposium on Learning and Adaptation in Stochastic and Statistical Systems

Chair: Dr. Alexandru Murgu, University of Jyvaskyla, Jyvaskyla, Finland

Knowledge-Aided measurement Techniques for Metrological Analysis in Hydrophysics

by Dr. I. Brusakova, St. Petersburg Electrotechnical University, Russia

Peculiarities of Polynomial Approximation in Experiments with Heterogeneous Systems

by Dr. Y. V. Chebrakov, St. Petersburg Technical University, Russia

Recovering Adequacy of Fitting Models in Describing the Behavior of Heterogeneous Systems

by Dr. Y. V. Chebrakov and Dr. V. V. Shmagin,
St. Petersburg Technical University, Russia

Delay Time for KWTN Neural Network

by Prof. C. A. Marinov, Polytechnic University of Bucharest, Romania,
Prof. B. Calvert, University of Auckland, New Zealand, and
Mr. V. Bucata, Polytechnic University of Bucharest, Romania .

Backward Learning in Control Systems by Classification Using Dynamic Programming

by Dr. Alexandru Murgu, University of Jyvaskyla, Jyvaskyla, Finland

Information Conditioning Adaptation for Maximum Likelihood Mean Learning

by Dr. Alexandru Murgu, University of Jyvaskyla, Jyvaskyla, Finland

Application of Joint Processing for Different Types of Data in Intelligent Systems

by Dr. V. N. Romanov, North-West Polytechnic Institute, St. Petersburg, Russia

Application of Fuzzy Logic to Random Process Forecasting for Heterogeneous Data

by Dr. V. N. Romanov, North-West Polytechnic Institute, St. Petersburg, Russia

Adaptive Non-Linear Estimation Using the API Approach

by Prof. I. V. Semoushin and O. Yu Gorokhov,
Ulyanovsk State University, Russia

Kalman Filter Identifiability Using API Approach in Control Systems

By Prof. I. V. Semoushin and Dr. Julia Tsyganova,
Ulyanovsk State University, Russia

Tuesday, July 31, 2001

09:00-17:30

Hall C

Symposium on Informatics and Systems Logic (Keynote Addresses)

Chair: Prof. Michele Malatesta, Univ. Degli Studi di Napoli Federico II, Napoli, Italy
Prof. Charles B. Balogh, Portland state University, Portland, Oregon, USA

Uncertain Logics, Variables and Systems (A Special Keynote Address)

by Prof. Z. Bubnicki, Institute of Control and Systems Engineering,
Wroclaw University of Technology, Wroclaw, Poland

A Formal System to represent Social Norms

by Prof. Charles B. Balogh and Prof. Maria E. Balogh,
Portland State University, Portland, Oregon, USA

Compatibility of Ethics and Economy in the Light of Lorentz Equations

by Dr. Arturo Graziano Grappone, METALOGICON, Rome, Italy

The Significance of Hume's Law in the Representation of Societal changes

by Prof. Charles B. Balogh and Prof. Maria E. Balogh,
Portland State University, Portland, Oregon, USA

Fuzzy Petri Nets as Linguistic Models of Dynamic Systems

by Prof. Felipe Lara-Rosano, Centro de Instrumentos,
National University of Mexico (UNAM), Mexico D. F., Mexico

A Perplex Logic of Emergence for Biological and Medical Sciences

by Prof. Jerry L. R. Chandler, Krasnow Institute for Advanced Studies,
George Mason University, McLean, VA, USA

Classical Logic as Infinitary Extensions of Logical Square

by Prof. Michele Malatesta, Universita Degli Studi di Napoli Federico II, Napoli, Italy

Truth -Values in Vectorial Logic

by Dr. Jorge Carrera, National University of Mexico, (UNAM),
Mexico D. F., Mexico

Tuesday, July 31, 2001

09:00-13:00

Hall D

Special Focus Symposium on Collaborative Decision-Support Systems

Chair: Prof. Jens Pohl, Exec. Director, Collaborative Agent Design (CAD) Research Center,
California Polytechnic State University, San Luis Obispo, California, USA

Risk Assessment in the Business Acquisition Process: A Case Study

by Profs. Lawrence S. Aft, Richard Halstead-Nussloch and John Heathcock,
Industrial Engineering Technology Department,
Southern Polytechnic State University, Marietta, Georgia, USA

A Soil Bioengineering Decision Support System

by Drs. Pedro Gamito and Andy Hamilton,
Research Center of Construction and Property Management,
The University of Salford, United Kingdom

Conceptual Integrated Model to Preserve/Remove Façade Plaster in Historical Buildings

by Dr. Antonella Petrai, The Netherlands

A Computer Intelligent Agent for Semantic Classification of E-mail Messages

by Prof. Vladimir A. Fomichov and Dr. I. V. Lustig, Department of Information Technologies,
K. E. Tsiolkovsky Russian State Technological University and
Moscow State Institute of Electronics and Mathematics, Russia

BREAK 10:45-11:00

Automating the Collaborative Decision Making Process in Software Project Planning

by Dr. Rory O'Connor, Dublin City University, Ireland

Pattern Generating Mechanisms in Complex Adaptive Systems

by Prof. Ansgar Killing, Stuttgart, Germany

Knowledge Management for Multi-Lifecycle Engineering

by Profs. Franz Kurfess and Leon Jololian, California Polytechnic State University,
San Luis Obispo, CA, USA

Perception of the Effects of I.T. on Staff: Observed Differences Between the Outcomes of Studies in the Construction Industry

by Prof. Paul Clarke, University of Technology, Sydney, and
Dr. John Clarke, University of Sydney, Australia

Tuesday, July 31, 2001

09:00-17:30

Hall E

**Special Focus Symposium on Sustainable Development:
Theories, Strategies and Global Governance Systems**

Chair: Prof. Kensei Hiwaki, Tokyo International University, Kawagoe, Saitama, Japan

Sustainability of Humanity

by Prof. Otto E. Roessler, University of Tuebingen, Germany

Sustainable Development: Essential for an Integrated Approach

by Prof. Kensei Hiwaki, Tokyo International University, Kawagoe, Saitama, Japan

Sustainable Development: Cultural Approach

by Prof. Thaddeus J. S. Mallaya, Technical University of Brno, Czech Republic

Sustainable Development: A Need for Comprehensive Human Approach

by Prof. Ashok Kaul, Banaras Hindu University, Varanasi, India

On Creating the Regime for the Global Sustainability

by Prof. Joonho Kim, Tokyo International University, Kawagoe, Saitama, Japan

LUNCH BREAK 12:00 – 14:00

The Internet, Home-Based Mental Training and Sustainable Development

by Dr. Torben Larsen, health Economist, Odense SV, Denmark

**Cognitive Foundations of Compensating Negative Influence of Computers
on the Young Generation**

by Dr. Olga Fomichova, Moscow Children & Teenagers Palace for Creative Work,
Prof. Vladimir Fomichov, Lomonosov Moscow State University, and
Dr. Lioudmila D. Oudalova, Retired Senior Researcher, Moscow, Russia

Strategy Parameters of Globalization Management

by Prof. Wiktor Adamkiewicz, Technical University of Gdansk, and Gdynia Maritime Academy,
Gdynia/Gdansk, Poland

Anticipatory System and Sustainability of Business Systems

by Prof. Miroslav Rebernik, and Prof. Vojko Potocan,
University of Maribor, Maribor, Slovenia

Global Information Systems: Assessment and Efficiency

by Prof. Milos Koch and Prof. Karel Rais,
Technical University of Brno, Czech Republic

Approaching the Sustainable Organization

by Prof. Jozica Knez-Riedl, Prof. Matjaz Mulej, and Prof. Zdenka Zenko,

University of Maribor, Maribor, Slovenia

Wednesday, August 1, 2001

09:00-17:00

The Aula

**Plenary Session and a Special Focus Symposium on Celtic Civilization:
Important Implications to Today's European and Global Issues**

Chair: Prof. Kensei Hiwaki, Tokyo International University, Kawagoe, Saitama, Japan

The Interactive Classroom in a Global Environment:

Exploring Video Conferencing as a Learning Tool for Home-Bound Studies

by Prof. Winfried K. Rudloff, Governor State University, Univ. Park, IL, USA

ERP Systems in Universities

by Prof. John Hiller, University of New South Wales, Sydney, Australia

The Information System Design for Sustainable Regional Planning

by Prof. Masao Hijikata, Waseda University, Tokyo, Japan

The International Mathematical Olympiad – Another Case of the Intellectual Olympics

by Prof. Akira Ishikawa, Aoyama Gakuin University, Tokyo, Japan, and
The ICC Institute, the University of Texas, Austin, TX, USA

Celtic Civilization

The Nature of Celtic Gift

by Prof. Gerard de Zeeuw, University of Amsterdam, The Netherlands,

Human Rhapsody: Celtic Experience

by Prof. Ayten Aydin, Civil Engineer, Former UN/FAO Adviser, Rome, Italy

LUNCH BREAK 12:00-14:00

Celtic Civilization and Modern Economics

by Prof. Kensei Hiwaki, Tokyo International University, Kawagoe, Saitama, Japan

Ancient Heritage as a Tool for Civilization Development

by Prof. Wiktor Adamkiewicz, Technical University of Gdansk, and Gdynia Maritime Academy,
Gdynia/Gdansk, Poland

The Vision and Form in Celtic Ornament

by Prof. Mayumi Tsuruoka, College of Letters
Ritsumeikan University, Kyoto, Japan

Wednesday, August 1, 2001

09:00-17:30

Hall A

Symposium on Systems Research in the Arts

Chair: Prof. Radoslav Zuk, McGill University, Montreal, Quebec, Canada,
Dr. James Rhodes, School of Sciences & Mathematics, Shorter College, USA and
Prof. Jane Lily, Interior Design, Lamar Dodd School of Art, Univ. of Georgia, USA

Session 1: Music, Environmental Design and the Choreography of Space

LISTEN: A New Multi-Sensory Form of Content

by Dr. Gerhard Eckel, GMD – German National Research Center for Information Technology

Composing Space: The Integration of Music, Time and Space in Public Art

by Dr. Robert Coburn, Professor and Chair of Music Theory and Composition,
Conservatory of Music, University of the Pacific, USA

Architecture-Dance Collision Project

by Prof. Monika Koeck, College of Architecture, University of Oklahoma, USA
and Prof. Richard Koeck, College of Architecture, University of Oklahoma, USA

A Walk Through Tonal Space: Charting the Establishing of the Key of a Melody

by Prof. Elaine Chew, Integrated Media Systems Center, Department of Industrial
and Systems Engineering, University of Southern California, USA

Session 2: Music, Environmental Design and the Choreography of Space

Music in Medicine: New Ways to Link Body with Mind Among Emerging Technologies

by Dr. Nils-Goran Sundin, University of Jyväskylä and Collegium Europaeum,, Sweden

A Language of Design Using Personality Theory

by Jennifer Madden, Department of Landscape Architecture,
University of California at Davis, USA

Joining Music, Art and Space in a Person-Music Interactive System: A Systems Approach

by Dr. Gertina van Schalkwyk, Department of Psychology,
University of Pretoria, South Africa

Soundscapes of Archetypal Space

by Prof. Jane Lily, Interior Design Department, University of Georgia, USA, and
Dr. James Rhodes, School of Sciences and Mathematics, Shorter College, USA

A Simple Gift: The Music and Architecture of the Shaker Village at Pleasant Hill

by Dr. Vicki Bell, Music Theory Dept., Asbury College, USA

Wednesday, August 1, 2001

09:00-17:00

Hall B

Symposium on Knowledge Based Systems and Expert Systems

Chairs: Prof. Vladimir Marik, Technical University of Prague, Czech Republic,
Prof. Maria and Charles Balogh, Portland State University, Portland, Oregon, USA

Belief and Truth

by Dr. Hanns Sommer, University of Kassel, Kassel, Germany

Estimation of Models for expert Systems

by Dr. Marjan Druzovec, Faculty of Mechanical Engineering, University of Maribor, Slovenia and
Prof. Tatjana Welzer, Faculty of Electrical Engg. & Computer Science, Univ. of Maribor, Slovenia

Similarity Search of Reusable Database Components Using Data Mining Techniques

by Prof. Tatjana Welzer, Dr. Bostjan Bruman, Dr. Marjan Druzovec, Univ. of Maribor, Slovenia,
and Dr. Ivan Rozman, Tampere University of Technology, Pori,

Fuzzy Inductive Reasoning in the Context of Knowledge Discovery and Data Mining

By Prof. Angela Nebot, Universitat Politecnica de Catalunya, Barcelona, Spain, and
Dr. Francisco Mugica, Instituto Politecnico Nacional, Mexico D.F., Mexico

Sample-Based Performance Assessment of Learning Algorithms

by Dr. Bostjan Brumen & Prof. Tatjana Welzer, University of Maribor, Slovenia, and
Dr. Hannu Jaakkola & Dr. Isidor Golob, Tampere University of Technology, Pori, Finland

How to Evaluate the Complexity of Software Processes

by Dr. Romana Vajde Horvat & Dr. Ivan Rozman, University of Maribor, Slovenia

An Expert System for Fuel Injection Engine Fault Diagnosis

by Dr. Eugenio Lopez-Ortega & Dr. Felipe Lara-Rosano, Natl. Univ. of Mexico, UNAM, Mexico

Programming in Logic and Inter-Lingual Knowledge Transfer

by Ray Smilgius and Prof. Winfried K. Rudloff, Governors State University, IL, USA

Exploration of Social Knowledge in Coalition Formation

by Prof. Vladimir Marik, Michal Pechoucek, Jiri Barta, Technical University of Prague, Czech Republic

Efficiency of Communication Between Software Agents in Distributed Information System

by Dr. Aleksander Zgrzywa, Wroclaw University of Technology, Wroclaw, Poland

Assembly of Security Policy in a Process of Integration of a Set of Corporate Systems

by Dr. Wojciech St. Moscibrodzki, Technical University of Gdansk, Gdansk, Poland

Numerical Experiments with Fractals Generated by Parameters Modulated Generators

by Dr. Ing. Ladislav Lucas, University of West Bohemia, Pilsen, Czech Republic

The Use of Mathematical Modeling in Fuzzy Classification

by Ing. Mikulas Gangur & Dr. Miroslav Plevny, University of West Bohemia, Czech republic

Possibility for Extending Electronic Media with a Sense of Immediate Reality in their Applications

by Prof. Takao Ichiko, Yamagata National University, Yonezawa City, Japan

Wednesday, August 1, 2001

09:00-17:30

Hall C

Symposium on Advanced Concepts for Intelligent Vision Systems: ACIVS-2001

Chairs: Dr. Jacques Blanc-Talon, CTA/GIP, Arcueil, France & Dr. Dan Popescu, CSIRO, Canberra, Australia

SESSION A: VISION SYSTEMS AND SCENE UNDERSTANDING

Adaptive Classification for ROI-Selection in Image Sequences

by B. Bargel, K.-H. Bers, G. Schwan

Facet Based Image Processing and Representation

by A. V. Michtchenko

Evolving Motricity in Particle-Based Model

by B. Stanciulescu, J.-L. Florens, J. Louchet, A. Luciani

A Real Production Vision System for Aggregates and Froth Quality Control

by W. X. Wang & O. Stephanson

CAD Based Vision for Guiding a Mobile Robot

by M. Ayromlou, W. Ponweiser, C. Beltram, O. Madsen, M. Vincze, A. Gasteratos.

Object Detection and Feature Extraction for the Recognition of Real world Images

by Haomin Jin

A Generic Environment for the Evaluation of Vision Systems

by J. Blanc-Talon & V. Ropert

SESSION B: PATTERN RECOGNITION

Robust Human Detection and Segmentation Using Prototype Based Deformable Templates

by L. Li & K. H. Leung

3D Shape Modeling by Multilayer Network

by I. Kumazawa & M. Ohno

A New Neural Network Based Colour Shape from Shading Methodology

by T. W. S. Chow & S.-Y. Cho

SESSION C: VIDEO PROCESSING, SURVEILLANCE AND IMAGE SECURITY

Image Scrambling Using an Optimal Basis with Isotropic Energy Concentration

by D. V. D. Ville, W. Philips, I. Lemahieu

Content Based Image Matching Using Gabor Filtering

by V. Kyrki, J.-K. Kamarainen, H. Kalvianen

Reduction of the Number of Domain Blocks Enroled in a Domain Pool for Fractal Image Coding

by H. Kuroda, K. Imamura, Y. Tanak, M. Fujimura, Y. Wang

Suspicious Human Action Detection for Video Surveillance

by L. Li & M. H. Leung

Finding Initial Estimates of Face Location in Color Images by T. S. Caetano & D. A. C. Barone

Wednesday, August 1, 2001

09:00-16:00

Hall D

Focus Symposium on Virtual Reality & Hi-Tech in Architecture

Chair: Prof. Greg Andonian, Carleton University, Ottawa, Canada

Co-Chair: Prof. Liza Medek, IRAP, National Research Council, Canada

Two Bodies and Two Minds: Architecture and Dweller – Keynote Address

by Prof. Greg Andonian, School of Architecture, Carleton University, Ottawa, Canada

Introducing Form Syntax as a Digital Tool for Design Dialectics

by Newton D'Souza & David Chou-Shulin, The National University of Singapore, Singapore

Development of a J2EE Application System for Automated Building Design

Conformance Checking

by Q.Z. Yang, X.J. Xu, J.P. Sun and Xiang Li, Gintic Institute of Manufacturing Technology, Singapore

Robots of Architectural Skeleton

by Prof. James T. J. Wang, University Of British Columbia, Vancouver, B.C., Canada

Prospects of Architectural computing: Speculation Based on a Taxonomy of Design Representation

by Dr. Per Galle, Department of Civil Engineering, Technical University, Lyngby, Denmark

A Study of Rules Producing in Layout Design: A Genetic Algorithm Approach

by Kuo-Chung Wen, Chinese Culture University, Taipei, Taiwan

A Virtual Architect – A Toy or a Tool

by Dr. Adam Gorczyca, Faculty of Architecture, Warsaw University of Technology, Warsaw, Poland

Audio-Augmented Architecture

by Dr. Gerhard Eckel, GMD, Institute for Media Communication, St. Augustin, Germany

Virtual Reality in Architecture Vs. Architecture in Virtual Reality: A Critique

by Mulari Paranandi & Tina Sarawagi, Miami University, Oxford, Ohio, USA

Nanometrics in Architecture

by Prof. Liza Medek, Industry Technology Advisor, IRAP, National Research Council, Canada

Wednesday, August 1, 2001

09:00-10:30

Computer Laboratory

Special Focus Symposium on World Wide Web as Framework for Collaboration

Chair: Prof. Thomas Fowler, IV, Cal Poly, San Luis Obispo, California, USA

Degrees on Line – Risk Assessment

By Prof. Lawrence S. Aft & Richard Halstead-Nussloch, Southern Polytechnic State University, USA

Web Virtual Reality Based Space Information System

By Prof. Yong-seong Kim & Prof.Suktaz Kim, Kookmin university, Seoul, Korea

Principles of Semantic Search for Information on the Web by the Intelligent Agent LingSearch-1

By Prof. Vladimir A. Fomichov & A. A Kochanov,
K. E. Tsiolkovsky Russian State Technological University, Moscow, Russia

Wednesday, August 1, 2001

09:00- 17:30

Hall H

Symposium on Health, Healing and Medicine - (Keynote Addresses)
Special Focus Session on Informational and Bio-Energetic Medicine

Chair: Prof. Dr. med. Helmut Sauer, Director, IIAS, Waldbronn-Reichenbach, Germany,
and

Prof. Julia Tsuei, MD, President, Foundation for East-West Medicine, Taipei,
Taiwan

Information Medicine: Myth or Reality

by Prof. Julia J. Tsuei, M.D., Foundation for East-West Medicine, Taipei, Taiwan

Basic Principles of Microinteractionism & Energetic Restoration in Information Medicine

by Prof. Dr. Inga Kraetli, President, Collegium Humanum, Switzerland

The Clinical Possibility of Informational Medicine

by Prof. Kuo-Gen Chen, Ph.D., Soochow University, Taipei, Taiwan, R.O.C.

Regulation Medicine: Reflection on Different Kind of Healing

by Prof. Dr. med. Helmut Sauer, Director, IIAS, Waldbronn-Reichenbach, Germany

Some Aspects of Prenatal Diagnostics

by Prof. Dr. Tatjana Marik, M.D., Charles University, Prague, Czech Republic

LUNCH BREAK 12:00-14:00

**The Quantum Mechanical Human Body – BioResonance as an Instrument to
Harmonize Energy Transmission in the Human Body**

by Prof. Dr. Alfred Roessle, N.D., Vice-President, Collegium Humanum, Switzerland

Systems Framework for Synergistic Informational Medicine

by Prof. Dr. George E. Lasker, IIAS, and University of Windsor, Canada

**Design Issues in the Construction of Intercommunicating Therapies
for Informational Medicine**

by Prof. Jerry L.R. Chandler, Ph.D., Krasnow Institute for Advanced Studies,
George Mason University, McLean, VA, USA

Infrared Regulation Thermography: An Approach to Breast Cancer Prevention

by Prof. Dr. med. R. Berz, Director of Health Care, Daimler-Chrysler, Ulm, Germany

Antologous Therapies – A Special Form of Energetic Healing

by Prof. Dr. med. Helmut Sauer, Director, IIAS, Waldbronn-Reichenbach, Germany

Laser Scanning Cytometry (LSC): Minimal Input – Maximum Outcome

by Marcus Rojewski, Freie Universitaet Berlin, Germany

DISCUSSION

Thursday, August 2, 2001

09:00-16:00

The Aula

**5th INTERNATIONAL SYMPOSIUM ON CULTURE OF PEACE
AND THE DIALOGUE OF CIVILIZATIONS FOR THE 3RD MILLENNIUM**

**ART AND SCIENCE IN THE SERVICE
OF PROMOTING PEACE CONSCIOUSNESS**

Chairs: Prof. Ayten Aydin, Former Senior Advisor to UN/FAO, Rome, Italy
Prof. Harry Schwarzlander, Syracuse University, Syracuse, NY, USA

Online Education: A Cultural Change Process Through Co-operation

by Prof. Denis Edgar-Nevill, Associate Dean of Postgraduate Studies;
University of Lincolnshire & Humberside, Lincoln, United Kingdom

Science and Art Interaction in a Purposeful Process

by Prof. Ayten Aydin, Former Senior Advisor to UN/FAO, Rome, Italy

Art, the Senses and Peace

by Dr. Hiltrud Schinzel, IIAS, Duesseldorf, Germany

Exchange Value and Entertainment

by Prof. Dr. Karel Boullart, University of Gent, Belgium

Global Meets Local: Contradiction and Compromise of Values in the Built Environment

by Prof. Brian R. Sinclair and Asli Ceylan Oner, Ball State University, Muncie, Indiana, USA

Expression of Fairness and Cooperation Among Sixth Grade Primary Students

by Maria Guadalupe Velezquez-Guzman, M.E., Universidad Pedagogica Nacional, Mexico

LUNCH BREAK 12:00-14:00

Cultures as Systems: The Basis for Designing a Culture of Peace

by Prof. Robert J. Taormina, Ph.D., University of Macau, China

The Process Approach

by Prof. Harry Schwarzlander, Syracuse University, Syracuse, NY, USA

Predicaments for Peace as Intercultural Phenomenon –

Tolerance and Lack of Xenophobia as Criteria

by Prof. Dr. Alfred Locker, University of Technology, Vienna, Austria

Threats to Democracy at the Quebec City FTAA Summit

by Prof. William Graham, IIAS and The University of Toronto, Canada

The Universal Sustainability-Responsibility versus Liberty Paradox

by Prof. Garry Boyd, Ph.D. and Prof. Vladimir Zeman, Ph.D., Center for Systems Research and Knowledge Engineering, Concordia University, Montreal, Quebec, Canada

Thursday, August 2, 2001

09:00-16:00

Hall A

Symposium on Systems Research in the Arts

Chairs: Dr. James Rhodes, School of Sciences & Mathematics, Shorter College, USA,
Prof. Jane Lily, Interior Design, Lamar Dodd School of Art, Univ. of Georgia,
USA

Session 3: Concurrent Experience

Objects, Images, and Music

by Prof. Prasad Boradkar, School of Design, Arizona State University, USA,
Prof. Mookesh Patel, Graphic Design, Arizona State University, USA, and
Dr. Nabeel Zuberi, Film and Media Studies, University of Auckland, New Zealand

Filmic Re-Descriptions of Space

by Prof. Wanda Dye, College of Architecture, Georgia Institute of Technology, USA

The Integrity of Personal and Decorated Space On and Off Stage

by Joann Wilson, Interior Design, Utah State University, USA, and
Polly Richman, English Language Institute, University of Utah, USA

Serial Composition With Shapes

by Dr. Athanassios Economou, Georgia Institute of Technology, USA

Session 4: Sound and Space

Diffusion as Performance

by Dr. John Dack, Center for Electronic Arts, Middlesex University, United Kingdom

Straw Bales: Structural Elements With Acoustical Properties

by Abigail Williams, University of Georgia, USA

When the Fingers Dance

by Dr. Pauli Laine, Nokia Research Center, Finland

Thursday, August 2, 2001

17:00-19:00

The Aula

AWARD CEREMONY

**In recognition of excellence and to honor meritorious achievements,
distinguished service and outstanding scholarly contributions
of our colleagues
who have been nominated and selected by the Award Committee
for the year 2001 Awards**

Thursday, August 2, 2001

09:00-16:00

Hall B

Symposium on Innovative Management – (Keynote Addresses)

Chairs: Prof. Sophia Langley, CARMA Limited, Leeds, U.K., and IIAS, Windsor, Canada,
Prof. Don O. Koval, University of Alberta, Edmonton, Alberta, Canada

Professional and Personal Values: Marketing Students Versus Marketing Executives

by Prof. Alfred J. Hagan, Pepperdine University, Prof. Pamela I. Hall, Western Washington Univ.,
Prof. John C. Rogers, Cal Poly, and Prof. Terrell G. Williams, Western Washington University, USA

**Workflow Analysis and Tool Design for the Coordinated Management of Risk
Across Large Multi-Site Organizations.**

by : Prof. Sophia Langley, CARMA Limited, Leeds, U.K., and IIAS, Windsor, Canada, and
Prof. Peter Jarratt, University of Birmingham, Edgbaston, United Kingdom

Balance Score Card as an Innovative Management Tool

by Dipl. Ing. Bernhard Boehrer, ASP GmbH, Buchen, Germany

**Impact of Society's Costs of Electrical Energy Utilization
due to Volatile Deregulated Energy Prices**

by Prof. Don O. Koval, University of Alberta, Edmonton, Alberta, Canada, and
Lou Hiemer & Thomas Bor, Public Works & Government Services Canada, Edmonton, Alberta, Canada

**Variety Capturing and Transfer in Hierarchical Economic Steering Models
of Industrial Processes.**

by Prof. John Fogelholm, Ph.D., Helsinki University of Technology, Hut, Finland

LUNCH BREAK 12:00-14:00

**Reliable Solutions for Managing the Information
in Company's Intranet & Extranet Environments**

by Dr. Wojciech St. Moscibrodzki, Technical University of Gdansk, Poland

A Sample of Security Policy in a Process of Integration of a Set of Corporate Systems

by Dr. Wojciech St. Moscibrodzki and Prof. Bogdan Wiszniewski,
Technical University of Gdansk, Poland

A Data-Warehouse Based ALM System

by Prof. Samo Bobek, Heri Spicka and Simona Sternad, University of Maribor, Slovenia

The Price Consideration on Internet Marketing

by Mr. Whe Dar Lin, The Overseas Chinese Institute of Technology, Taichung, Taiwan, R.O.C.

**Significance of Evaluating Industrial Power System Reliability
in a Changing Energy market Environment**

by Prof. Don Koval, Prof. John Salmon, Liang Jiao, Xinlei Zhang,
University of Alberta, Edmonton, Alberta, Canada

On Some Aspects of Globalization Management

by Prof. Dr. Wiktor H. Adamkiewicz, Technical University of Gdansk, and
Gdynia Maritime Academy, Gdynia/Gdansk, Poland

Thursday, August 2, 2001

09:00-17:00

Hall C

Symposium on Advanced Concepts for Intelligent Vision Systems – (ACIVS-2001)

Chair: Dr. Jacques Blanc-Talon, CTA/GIP, Arcueil, France &
Dr. Dan Popescu, CSIRO, Canberra, Australia

SESSION A: TUTORIAL

SESSION B: PATTERN RECOGNITION

The Computational Algorithm for Solving Jigsaw Puzzles

by F.-H. Yao, G.-F. Shao, H. Yamada, K. Kato

Reduction of Bias by Imposing Arc Length Constraint in Ellipse Fitting

by P. Peron & D. Dufresnois

A Three-Component Method for Shape-Based Image Retrieval

by D. Adjeroh & M. Brown

Texture Image Classification Using Discrete Multi-Wavelet Transform and Fuzzy Neural Network

by S. Li, Y. Wang, and B. Lohmann

LUNCH BREAK 12:00-14:00

SESSION D: IMAGE PROCESSING

Image Magnification with Multi-Resolution Analysis

by F. Nicolier & F. Truchetet

A 2D Filter Specification for Sonar Image Thresholding

by I. Quidu, J. Ph. Malkasse, G. Burel, and P. Vilbe

A New Measure of Image Enhancement

by S. S. Aghaian, K. P. Lentz and A. Grigorian

Noise Reduction in Mammographic Images Using Adaptive Neighborhood Contrast Enhancement

by V. H. Guis, M. Adel, M. & G. Rasigni, B. Seradour and P. Heid

A Wavelet Multi-Fractal Formalism for Edge Detection

by Z. Wan and G. Cheng

A Model-Based Image Segmentation Framework Using Labeled and Unlabeled Data

by J. L. Chen and S. R. Gunn

Image Processing in Two-Layer Coupled Map Lattices

by V. I. Nekorkin and V. B. Kazantsev

Thursday, August 2, 2001

08:00-17:00

Hall D

Special Focus Symposium on
Decision Technology and Intelligent Information Systems

Chair: Professor Kurt J. Engemann, Iona College, United States

Integrating Success Factors and Group Attitudes into the Valuation of a Company

by Dr. Matthias Amen, University of Bern, Berne, Switzerland

Information Fusion in Group Support Systems using the Power Average

by Professors Kurt J. Engemann, Iona College, New Rochelle, NY, USA

Holmes E. Miller, Muhlenberg College, Allentown, PA, USA

Ronald R. Yager, Iona College, New Rochelle, NY, USA

The Standardization of Business Decision-Making Between Holism and Entanglement

by Professors Vojko Potocan, Matjaz Mulej, and Stefan Kajzer, University of Maribor, Slovenia

Intelligent Information Systems for Visual Data Understanding and Analysis

by Professors Ryszard Tadeusiewicz and Marek Ogiela, University of Mining and Metallurgy, Krakow, Poland

XML Based CPM/PERT Models

by Professor Jerzy Letkowski, Western New England College, Springfield, Massachusetts, USA

Using Generic Project Models to Aid Decision Making

by Dr. Rory O'Connor, Dublin City University, Ireland

and Dr. Mark Johnston, PeopleSoft Inc. USA

Intelligent Agents in B2C Direct Marketing

by Professor Giampiero Beroggi, Delft University of Technology, Delft, Netherlands

and Professor Penny Spring, University of Groningen, Netherlands

Capability versus Inclination: Employee Utilization of Available Technology

by Professor Gayle Porter, Rutgers University, Camden, NJ, USA

Time Delay Estimation OF BAEPs Using Simulated Annealing

by Professors A. Nait-Ali, N. Cherrid, P. Siarry, and JF. Motsch, University of Paris, France

Selecting E-commerce Project Portfolios

by Professor Holmes E. Miller, Muhlenberg College, Allentown, PA, USA

Professor Kurt J. Engemann, Iona College, New Rochelle, NY, USA

Thursday, August 2, 2001

08:00-17:00
(continued)

Hall D

Special Focus Symposium on Decision Technology and Intelligent Information Systems

Chair: Professor Kurt J. Engemann, Iona College, United States

Solving Imprecise Discrete Multiattribute Problems under Risk based on Interactive Simulated Annealing

by Professors Sixto Rios-Insua, Antonio Jimenez and Alfonso Mateos, Madrid Technical University, Spain

The Impact of Business-to-Business Exchanges on Supply Chain Management: The Purchaser's View

by Professor Markus Biehl, York University, Toronto, Canada

Artificial Intelligence and Emotional Intelligence: In which Environments do Decision Support Systems Thrive?

by Dr. Iva Smit, E&E Consultants, Inc., Netterden, The Netherlands

Neuro-Fuzzy Economic Policy Modeling and Simulation By Genetic Algorithm

by Professor Yukio Ito, Osaka University of Economics, Japan

Investment and Risk Management of Proactive as against Reactive Network Maintenance Policy

by Dr. Markku Penttinen, Finnish Forest Research Institute, Helsinki, Finland

Valuation Models for Dot Com Companies

by Professor Prakesh Dheeriya, California State University-Dominguez Hills, Carson, CA, USA

Environmental Knowledge Management Systems: The EcoExplorer System

by Professor Hans-Knud Arndt, Humboldt University, Berlin, Germany

Intelligent Facilitation in Group Decision Support Systems: A proposed architecture and some preliminary findings

by Professors Georgios Papamichail and Georgios Doukidis, Athens University of Economics and Management, Greece

Interactive Economic Policy: Towards a Cooperative Policy Approach for a Negotiated Economy

by Professor Wolfram Elsner, University of Bremen, Germany

Use of OLAP Technology for Optimum Asset Allocation under Uncertainty

by Professors Nikitas-Spiros Koutsoukis, Triphonas Kyriakis, Gautam Mitra, Brunel University, England

Thursday, August 2, 2001

09:00-16:00

Hall E

Symposium on Environmental Systems Research

Chair: Prof. Simone Bastianoni, Ph.D., University of Siena, Italy

The Use of Natural Resources in Anthropic Systems from a Sustainability Viewpoint

by Profs. F. Pulselli, N. Marchettini, and S. Bastianoni,
University of Siena, Itali

On the sustainability of Electricity Production in Italy

by Profs. S. Bastianoni, M. P. Picchi, and F. Pulselli,
University of Siena, Italy

A Thermodynamic Framework for a Planning Model

by Prof. F. Pulselli and Prof. E. Tiezzi,
University of Siena, Italy

Improving the Energy Performance of New Built Dwellings in the United Kingdom by Regulation and Testing

by Dr. Stephen Todd, University of Salford, United Kingdom

FIR Models for Long Term Prediction of Ozone Concentration in Mexico City

by Drs. Francisco Mugica*, Angela Nebot** and Pilar Gomez*,

*Centro de Inv. En Ciencia Aplicada y Tec. Avanzada (CICATA), Inst. Politec. Nacional, Mexico,

**Universitat Politecnica de Catalunya, Barcelona, Spain

A Sustainable Play: Social Ecology

by Prof. Rita Micarelli, Politecnico di Milano, Italy

A Sustainable Play: Social Perception of Landscape

by Prof. Giorgio Pizziolo, Universita di Firenze, Italy

The Sowing of Information and the Flowering of Landscape

by Prof. Vasco Mancini, Florida State University, Tallahassee, Florida, USA

Thursday, August 2, 2001

09:00-16:00

Hall F

Symposium and Workshop on Systems Integration

Program Chairs: Prof. Waltraud Gerhardt, Delft University of Technology, Delft, NL,
Prof. Chris Zhang, University of Saskatchewan, Saskatoon, Canada
Prof. Bogdan Czejdo, Loyola University, USA

SESSION 1: Re-Engineering and Maintenance

Chair: Prof. Pat Martin, Queens University, Kingston, Ontario, Canada

Mining Attribute Similarity for Database Re-Engineering

by Drs. Aziz Barbar and Martine Collard, University of Nice, France

A Conceptual Architecture Proposal for Software Maintenance

by Drs. Francisco Ruiz, Mario Piattini and Macario Polo, University of Castilla-La Mancha, Spain

SESSION 2: Systems Integration I.

Chair: Prof. Chris Zhang, University of Saskatchewan, Saskatoon, Canada

SI Designer: A Framework to Build an Information Systems Integration

by Profs. B. Beneventano, S. Bergamaschi, F. Guerra and M. Vicini,
Universita' di Modena e Reggio Emilia, Italy

Guiding Object-Oriented Schema Integration by Using Structural and Behavioral Specification

by Profs. M. B. Al-Mourad, W. A. Gray and N. J. Fidian, Cardiff University, United Kingdom

A Generic Framework for the Interoperability of Multiple Heterogeneous Sources in an Opened and Evolutionary Context

by Profs. C. Rey and M. Schneider, Blaise Pascal University, France

Systems Integration Models

by Dr. Jiri Vorsek, Prague University of Economics, Prague, Czech Republic

LUNCH BREAK 12:00-13:30

SESSION 3: Systems Integration II.

Chair: Dr. Sherman Lang, National Research Council, Canada

Engineering Integrated Methods to Streamline Systems Integration

by Dr. Ajantha Dahanayake, Delft University of Technology, Delft, The Netherlands

Systems Integration is Equivalent to Process Integration

by Prof. Dr. Waltraud Gerhardt, Delft University of Technology, The Netherlands

Categorization of Business Objects

by Ir. Mohammed Abolhassani, Delft University of Technology, Delft, the Netherland

Thursday, August 2, 2001

09:00-12:00

Hall H

Workshop on Bio-Resonance and Biological Field Treatment

Conducted
by
Dipl.-Ing. Dietmar Helmes
Managing Director
Rayonex Schwingungstechnik GmbH, Lennestadt
Germany

Friday, August 3, 2001

09:00-12:00

Hall H

Workshop on Qi and Qi-Gong

Conducted
by
Prof. Dr. Julia J. Tsuei, M.D.
President
East-West Foundation
Taipei, Taiwan, R.O.C.
&
Prof. Dr. Kuo-Gen Chen
Soochow University
Taipei, Taiwan, R.O.C.

Friday, August 3, 2001

13:00-15:00

Hall H

Workshop on Radionics A New Technique in Complementary Medicine

Conducted
by
Peter von Buengner
Managing Director
m-tec AG Medizintechnik fuer Naturheilverfahren
Altkirchen bei Muenchen
Germany

Friday, August 3, 2001

09:00-15:00

The Aula

Symposium and Discussion Panel on Environment and Communication

Chair: Dr. Brian A. Day, Academy for Educational Development, Washington, DC, USA

Environmental Communication: Toward a Model for Policy Adoption

by Dr. Brian A. Day, Academy for Educational Development, Washington, DC, USA

Environmental Interpretation: Translation Across Subsystems

by Dr. Roberta W. Hilbruner, USAID, and Dr. Brian A. Day, AED, Washington, DC, USA

Environmental Education and Communication: Applying Systems Thinking Approach to Earth Systems Education

by Prof. Sabiha S. Daudi, Ph.D., Ohio State University Extension, OH, USA

Creating Sustainable Collectives: Designing Supportive Interfaces

by Dr. Martha Wahl, Lincoln Research Center Ltd., Lincoln, United Kingdom

Communication and Art – Internet Influences

by Prof. John Hiller, University of New South Wales, Sydney, Australia, and Prof. Terry Postero, Buffalo State College, Buffalo, NY, USA

Can Autonomous Entities Act on Non-Conscious Meaning in Human Communication? (An Initial Paper on MindSurfer Technology)

by Dr. Joseph David Carrabis, Chief Research Scientist, AscendantOne, Inc., Nashua, NH, USA

What Does the Coming Paradigm Shift in the Delivery of Instruction Mean for the Culture of Public Education

by Dr. Robert M. Justin, Attorney at Law, Rochester, Michigan, USA

Friday, August 3, 2001

09:00-12:30

Hall A

Symposium on Systems Research in the Arts

Chair: Dr. James Rhodes, School of Sciences and Mathematics, Shorter College, USA, and Prof. Jane Lily, Interior Design, Lamar Dodd School of Art, The University of Georgia, USA

Session 5: Space and Order

ETNA – A New Advanced Graphical Tree Representation of Music

by Wolfgang Chico-Toepfer, Darmstadt, Germany

The Effectiveness of 3-D Computer Animation on Listeners Affetive and Cognitive Responses Towards Contemporary Electronic Space Music Utilizing 3-D (Surround Sound)

by Prof. Barry Atticks, Program Director of Music Industry, Drexel University, USA

Popping Up the Human Genome

by Dr. Markus Rojewski, Free University of Berlin, Germany, and

Prof. Terry Postero, State University of New York, College at Buffalo, USA

Friday, August 3, 2001

09:00-15:30

Hall E

Internet Education

Focus Symposium and Workshop
on

Global Cooperation or Global Competition in Education?

Chair: Prof. Winfried K. Rudloff, Governors State University, Univ. Park, IL. USA

The Interactive Classroom in a Global Environment (Keynote Address)

by Prof. Winfried K. Rudloff, Governors State University, Univ. Park, IL. USA

Building E-Learning Community in Slovakia – Experience with the Online Education

by Dr. Ladislav Samuelis and Dr. Frantisek Jakab, University of Technology in Kosice, Slovakia

Exploring High Technology in Education –

A Report on Graduate Course in Computer Science at the Governors State University

by: Prof. Winfried K. Rudloff, Governors State University, Univ. Park, IL. USA

Towards an Algorithm Education System on the Web

by Prof. Hirotsugu Kakugawa and Prof. Tadashi Mori, Hiroshima University, Japan

**A Hypertext Platform for the Maintenance/Troubleshooting of the Educational Equipments
For the Educational Technologists** (Invited Paper)

by Dr. Kamel Hussein Rahouma, RIST, Salzburg, Austria and Prof. Peter Zinterhof, Head of the
Department of Scientific Computing, University of Salzburg, Austria

Basics of Actionism in Advanced Education and Learning Models (Keynote Address)

by Prof. Inga Kraettli, MD, President, Collegium Humanum, Switzerland

Constructivist Teaching: Overcoming Prejudice in Classroom

by Profs. Hugh Gash and Mary Shine Thompson, St. Patrick's College, Dublin, Ireland

Expression of Fairness and Cooperation Among Sixth Grade Primary Students

by Prof. Maria Guadalupe Velazquez-Guzman, National University of Mexico (UNAM), Mexico

**Possibility of Extending Electronic Media
with a Sense of Immediate Reality in Their Applications**

by Prof. Takao Ichiko, Yamagata National University, Yonezawa City, Japan

Friday, August 3, 2001

09:00-16:00

Hall F

Symposium and Workshop on Systems Integration

SESSION 4: Integration and Enterprise Applications

Chair: Prof. Pat Martin, Queens University at Kingston, Canada

**The Emerging ISO Standards STEP AP233 –
A Key Enabler for Systems Engineering Across Different Domains**
by Dr. Carsten Duesing, Technische Universitaet Clausthal, Germany

Models for Cooperative Engineering Over the Web
by Dr. Mikolaj Baszum, Warsaw University of Technology, Poland, and
Prof. Bogdan D. Czejdo, Loyola University, USA

Integration of Fuzzy Multidatabase Systems with Incompatible Keys: Entity Identification
by Z. M. Ma, W. J. Zhang and W. Y. Ma, University of Saskatchewan, Canada and
City University of Hong Kong, China

SESSION 5: E-Commerce Aspects

Chair: Dr. Sherman Lang, National Research Council, Canada

Integration of Aggregated Attributes in a Data Warehouse
by Prof. Bogdan D. Czejdo and C. Putonti, Loyola University, USA

A Visual Language for Development of Information System
by Prof. Kenneth Messa and Prof. Bogdan Czejdo, Loyola University, USA

Building Updated XML Views on Top of Relational Databases
by Prof. Alexei Valikov, Wassili Kazakos, and Andreas Schmidt,

SESSION 6: Database Aspects

Chair: Prof. Bogdan Czejdo, Loyola University, USA

Scheduling Filtered Path-Queries in an Active Object Database
by Dr. Ivan Szanto, Delft University of Technology, The Netherlands

Overpass-Crossing Scheme for Digital Signature

by Prof. Boris S. Verkhovsky, New Jersey Institute of Technology, Newark, USA

Load Balancing Distributed File System Servers: A Rule Based Approach

by Dr. Alexandra Glagoleva and Dr. Archana Sathaye, IBM Almaden Research Center, and San Jose State University, USA

Algorithm for Optimal Multi-Job Time Cost Load Balancing

by Prof. Boris S. Verkhovsky, New Jersey Institute of Technology, Newark, USA

Saturday, August 4, 2001

10:00-12:00

TBA

GENERAL ASSEMBLY

Closing Session

Saturday, August 4, 2001

14:00-15:00

TBA

MEETING OF THE BOARD OF DIRECTORS
of The International Institute for Advanced Studies
in Systems Research and Cybernetics