



# CyberTherapy 2004

Using Interactive Media in Training  
and Therapeutic Interventions

## Conference at a Glance

### **FRIDAY, 9<sup>th</sup> January 2004**

#### ***Pre-conference Workshops***

##### Ambassador Room

Workshop Chair: Stephane Bouchard PhD

9:00am Workshop #1:  
Introduction to VR

12:30pm Workshop #2:  
Anxiety & Eating Disorders

3:00 pm Workshop #3:  
VR for Pain, Neuropsychology,  
Rehabilitation, & Addictions

6:00 pm Welcome Reception  
Embassy Room

### **SATURDAY, 10th January 2004**

Exhibits: Riviera Room 900am - 9pm

##### Versailles Ballroom

8:30 am Registration  
Breakfast

9:00am Welcome  
Brenda K Wiederhold  
PhD MBA BCIA

#### **CyberAssessment**

Session Chairs: Hunter Hoffman PhD &  
Rosa Banos PhD

9:15am – 10:30am Oral Presentations

10:30am – 11:00am Break

#### **Virtual Reality and Addictions**

Session Chairs: Alex Bullinger MD, MBA &  
Dave Thomas PhD

11:00am – 12:30pm Oral Presentations

12:30pm – 12:35pm CRC Award  
Stephane Bouchard PhD

12:35pm – 2:00pm Lunch Break

##### Versailles Ballroom

#### **CyberEvaluation**

Session Chairs: Erik Viirre MD PhD &  
Albert "Skip" Rizzo PhD

2:00pm – 3:15pm Oral Presentations

3:15pm – 4:15pm Afternoon Tea

#### **Presence in CyberTherapy**

Session Chairs: Cristina Botella PhD &  
David Walshe PhD

4:15pm – 5:00pm Oral Presentations

#### **6:00pm – 9:00pm CYBERARIUM**

Riviera, Ambassador, Embassy, & Coronet  
Rooms

**POSTER RECEPTION** is at the Cyberarium  
Ambassador, Embassy, & Coronet Rooms

**SUNDAY, 11th January 2004**

Exhibits: Riviera 9:00am – 9:00pm

Versailles Ballroom

9:00am Welcome  
Giuseppe Riva PhD

**CyberEducation and CyberTraining**

Session Chairs: Kay Howell PhD &  
Mark Wiederhold MD PhD FACP

9:15am – 10:30am Oral Presentations

10:30am – 11:00am Break

11:00am – 12:00am Discussion

12:00pm – 1:30pm Lunch Break

Versailles Ballroom

**Funders' Panel**

Session Chairs: Walter Greenleaf PhD  
Brenda K. Wiederhold PhD  
MBA BCIA

1:30pm – 2:30pm Oral Presentations

2:30pm – 3:00pm Q & A Session

3:00pm – 3:30pm Break

**Anxiety Disorders**

Session Chairs: Stephane Bouchard PhD &  
Sun I. Kim PhD

3:30pm – 5:00pm Oral Presentations

**6:00pm – 9:00pm CYBERARIUM**

Riviera, Ambassador, Embassy, & Coronet  
Rooms

**POSTER RECEPTION** is at the Cyberarium  
Ambassador, Embassy, & Coronet Rooms

**MONDAY, January 12th 2004**

Versailles Ballroom

**Pain Distraction and Rehabilitation**

Session Chairs: Giuseppe Riva PhD &  
Isabelle Viaud-Delmon PhD

9:30am – 10:30am Oral Presentations

10:30am – 11:00am Break

**E-health Applications**

Session Chairs: Carlo Galimberti PhD &  
Brenda K Wiederhold PhD MBA BCIA

11:00am – 12:00pm Oral Presentations

12:00pm – 2:00pm

**Lunch with Richard M Satava MD FACS**

**Human-Robot Interactions**

Session Chairs: Gary Gilbert PhD &  
Elena Libin PhD

2:00pm – 3:30pm Oral Presentations

3:45pm – 4:15pm Break

**Games for Health**

Moderator: Mark Wiederhold MD PhD  
FACP

4:15pm -- 5:30pm Panel Discussion

## **Conference Program Committee**

### **Conference Co-Chairs:**

Brenda K. Wiederhold, Ph.D., MBA, BCIA  
Interactive Media Institute  
The Virtual Reality Medical Center

Giuseppe Riva, Ph.D.  
Applied Technology for Neuro-Psychology Lab  
Istituto Auxologico Italiano

### **Program Committee:**

Mariano Alcañiz Raya, Ph.D.  
Universidad Politécnica de Valencia

Cristina Botella, Ph.D.  
Universitat Jaume I

Stéphane Bouchard, Ph.D.  
University of Quebec at Hull

Alex H. Bullinger, M.D, MBA  
University of Basel (COAT-Basel)

Ken Graap, M.Ed.  
Virtually Better, Inc.

Walter Greenleaf, Ph.D.  
Greenleaf Medical

Hunter Hoffman, Ph.D.  
University of Washington

Sun I. Kim, Ph.D.  
College of Medicine,  
Hanyang University

Gabriele Optale, M.D.  
Association of Medical  
Psychotherapists

Albert "Skip" Rizzo, Ph.D.  
University of Southern California

Professor Paul Sharkey  
University of Reading  
Department of Cybernetics

Mel Slater, DSc.  
University College London

Erik Viirre, M.D., Ph.D.  
University of California, San Diego

David Walshe, Ph.D.  
University College Cork

Mark D. Wiederhold  
M.D., Ph.D., FACP  
The Virtual Reality Medical Center

## Pre-Conference Workshops

**Workshop Chair: Stephane Bouchard PhD**

**FRIDAY, 9th January 2004**

### **Ambassador Room**

- 9:00 ***Introduction to Clinical Virtual Reality***  
**Workshop leaders: Stephane Bouchard PhD & Mark D Wiederhold MD PhD FACP**  
**Moderator: Stephane Bouchard PhD**  
**Aim:** To provide complete information on basic topics such as Virtual Reality (VR) equipment, cybersickness, presence and other technical aspects of VR.
- 12:30 ***Advanced workshop on the applications of VR for Anxiety and Eating Disorders***  
**Workshop leaders: Cristina Botella PhD, Stephane Bouchard PhD, Giuseppe Riva PhD, and Brenda K Wiederhold PhD MBA BCIA**  
**Moderator: Stephane Bouchard PhD**  
**Aim:** To present data-driven material that is representative of the current state of research and knowledge in the areas of VR applied to anxiety disorders and eating disorders, and to familiarize participants with the applications of VR in clinical practice.
- 3:00 ***Advanced workshop on the applications of VR for Neuropsychology, Neurophysiology, Rehabilitation, Drug Abuse, and Pain***  
**Workshop leaders: Alex Bullinger MD MBA, Azucena Garcia-Palacios PhD, Walter Greenleaf PhD, Hunter Hoffman PhD, and Albert "Skip" Rizzo PhD**  
**Moderator: Hunter Hoffman PhD**  
**Aim:** To present data-driven material that is representative of the current state of research and knowledge in these fields, and to familiarize the participants with the applications of VR in clinical practice.

### **Embassy Room**

- 6:00 **Welcome Reception**

## **Special Sessions**

### **Virtual Reality Treatments for Addiction**

Moderators: Alex Bullinger, M.D., MBA; Dave Thomas, Ph.D.

### **CyberEducation and CyberTraining**

Moderators: Kay Howell, Ph.D.; Mark D. Wiederhold, Ph.D.

### **Games for Health**

Panel Discussion

Moderator: Mark D. Wiederhold, M.D., Ph.D., FACP

Participants: Stephane Bouchard, Ph.D.  
Barbara Hayes-Roth, Ph.D.  
Giuseppe Riva, Ph.D.  
Albert "Skip" Rizzo, Ph.D.  
David Walshe, Ph.D.

### **Funders' Panel – Funding Opportunities for Advanced Technologies' Research**

Moderators: Walter Greenleaf, Ph.D.; Brenda K. Wiederhold, Ph.D., MBA, BCIA

### **Human-Robot Interactions**

Moderators: Gary Gilbert, Ph.D.; Elena Libin, Ph.D.

## **Other Topics:**

### **CyberAssessment**

Moderators: Hunter Hoffman, Ph.D.; Rosa Baños, Ph.D.

### **CyberEvaluation**

Moderators: Albert "Skip" Rizzo, Ph.D.; Erik Viirre, M.D., Ph.D.

### **Presence in CyberTherapy**

Moderators: Cristina Botella, Ph.D.; David Walshe, Ph.D.

### **Anxiety Disorders**

Moderators: Stephane Bouchard, Ph.D.; Sun Kim, Ph.D.

### **Pain Distraction and Rehabilitation**

Moderators: Giuseppe Riva, Ph.D.; Isabelle Viaud-Delmon, Ph.D.

### **E-health Applications**

Moderators: Carlo Galimberti, Ph.D.; Brenda K. Wiederhold, Ph.D., MBA, BCIA

## Cyberarium

### **Saturday and Sunday, 6-9pm:**

The Cyberarium is a two-night event consisting of poster presentations detailing cutting edge research as well as hands-on demonstrations of virtual reality, simulation, physiology, and robotics technologies from around the world. You will have the opportunity to discover the latest research being performed in a variety of healthcare specialties, reviewing areas of interest at your own individual pace. The relaxed atmosphere of the Cyberarium serves to encourage discussion between researchers and those interested in their work, serving to help promote new collaborations. Appetizers will be served. Sunday evening the Cyberarium is open to the general public, to allow for education of end-users about healthcare options and advancements in treatment.

### **Cyberarium Participants:**

**CyberTherapy 2004/2005 Information**  
Interactive Media Institute

**EON Reality**  
Mats W. Johansson

**Fairleigh Dickinson University**  
Eamon Doherty, Ph.D.

**Image Institute**  
Toni Nixon, Ed.D.

**Interactive Media Institute**  
Brenda K. Wiederhold, Ph.D., MBA,  
BCIA

**IOS Press**

**Istituto Auxologico Italiano**  
Giuseppe Riva, Ph.D.

**Mary Ann Liebert, Inc. publishers**

**Olin Neuropsychiatry Research  
Center - Virtual Reality Laboratory**  
Robert S. Astur, Ph.D.

**PREVI**  
Cristina Weddle

**Sandia National Laboratories**  
Peter Merkle

**Universitat Jaume I**  
Cristina Botella, Ph.D.

**University of Haifa**  
Uri Feintuch, Ph.D.

**University of Ottawa**  
Veronique Vaillancourt, Ph.D.

**University of Pittsburg**  
Steve Baumann, Ph.D.

**University of Quebec at Hull**  
Stéphane Bouchard, Ph.D.

**University of Southern California**  
Skip Rizzo, Ph.D.

**Virtual Reality Medical Center**  
Brenda K. Wiederhold, PhD, MBA, BCIA

**Virtually Better, Inc.**  
Ken Graap, M.Ed.

**VRNEUROTECH**  
Morris Steffin, M.D.

## Conference Schedule

### **SATURDAY, 10th January 2004**

9:00 **Welcome –**  
**Brenda K. Wiederhold PhD MBA BCIA**

#### **CyberAssessment**

**Session Chairs: Hunter Hoffman PhD &**  
**Rosa Banos PhD**

9:15 **Robert Astur, PhD**  
Olin Neuropsychiatry Research Center  
Institute of Living  
*“Using Virtual Reality to Investigate  
Functioning of the Hippocampus in  
Schizophrenia”*

9:30 **Sarah St. Germain**  
Olin Neuropsychiatry Research Center  
Institute of Living  
*“Investigation of Driving Behavior in  
Individuals with Schizophrenia Using a VR  
Driving Simulator”*

9:45 **Mattias Wallergård MSCEE**  
Department of Design Sciences  
Lund Institute of Technology  
*“Can People with Brain Injury Transfer  
Route Knowledge from a Virtual  
Environment to the Real World?”*

10:00 **Jang Han Lee PhD**  
Hanyang University  
*“Design and Implementation of Virtual  
Reality System to Assess and Train the  
Patients of Unilateral Visual Neglect”*

10: 15 **Evelyne Klinger Eng**  
Université de Caen  
*“A Virtual Supermarket to Assess  
Cognitive Planning”*

10:30 **BREAK**

#### **Virtual Reality and Addictions**

**Session Chairs: Alex Bullinger MD MBA &**  
**Dave Thomas PhD**

11:00 **Ho-Sung Kim, PhD**  
Hanyang University  
*“A functional Magnetic Resonance  
Imaging (fMRI) Study of Nicotine Craving  
and Cue Exposure Therapy (CET) by  
using Visual Stimuli”*

11:15 **Steve Baumann PhD**  
Psychology Software Tools, Inc.

*“Smoking Cues in a Virtual World  
Provoke Craving in Cigarette Smokers  
as Demonstrated by Neurobehavioral  
and fMRI Data”*

11:30 **Patrick Bordnick MSW MPH PhD**  
Virtual Reality Clinical Research Center  
University of Georgia  
*“Development and Testing of a Virtual  
Reality Cue Reactivity Environment for  
Nicotine Dependent Cigarette Smokers”*

11:45 **Barbara Hayes-Roth PhD**  
Extempo Systems, Inc.  
*“Online Workshops Training Brief  
Intervention in Alcohol Abuse”*

12:00 **Leo Whang PhD**  
Yonsei University  
*“The On-line Game Addiction as a  
Luxury Syndrome: An immersion of  
digital world as a consumption of digital  
product”*

12:15 **Brian Ng MS**  
DePaul University  
*“Addiction to Massively Multiplayer  
Online Role-Playing Games”*

12:30 **PRESENTATION OF THE CLINICAL  
CYBERPSYCHOLOGY NEW  
INVESTIGATOR AWARD**  
Stephane Bouchard PhD

12:35 **LUNCH BREAK**

#### **CyberEvaluation**

**Session Chairs: Albert “Skip” Rizzo PhD &**  
**Erik Viirre MD PhD**

2:00 **Alex Bullinger MD MBA**  
COAT-Basel  
*“Development and Evaluation of a  
Modular Psychophysiological Test  
Battery for Use with Virtual  
Environments/Augmented Reality  
Applications”*

2:15 **Patrice Renaud PhD**  
Cyberpsychology Lab  
University of Quebec in Outaouais  
*“The Recording of Oculomotor  
Responses in Virtual Immersion”*

2:30 **Gabor Csukly MD**  
SOTE

*"Evaluating Psychiatric Patients Using High Fidelity Animated 3D Faces"*

2:45 **Sharon Tettegah PhD**  
University of Illinois  
*"Assessing Perceptions and Empathy of Victims in Educators"*

3:00 **Isabelle Viaud-Delmon PhD**  
*"3-D Sound and Virtual Reality: Applications in Clinical Psychopathology"*

3:15 **AFTERNOON TEA**

**Presence in CyberTherapy**  
Session Chairs: **Cristina Botella PhD & David Walshe PhD**

4:15 **Genevieve Robillard MSc**  
Cyberpsychology Lab  
University of Quebec in Outaouais  
*"The Relationship Between Anxiety and Presence"*

4:30 **Fabrizia Mantovani PhD**  
Istituto Auxologico Italiano  
*"Narrative Dimension, Sense of Presence and Emotional Involvement"*

4:45 **Stephane Bouchard PhD**  
Cyberpsychology Lab  
University of Quebec in Outaouais  
*"A Hint on the Relationship Between Fear and Presence"*

**CYBERARIUM: 6-9pm**  
**Brenda K. Wiederhold PhD MBA BCIA**

**Poster Presentations:**

**Rosa Banos PhD**  
Universitat Jaume I  
*"Virtual Reality as a Psychological Laboratory: Its Utility for Assessing Attentional Biases in Anxiety Disorders."*

**Alex Bullinger MD MBA**  
COAT-Basel  
*"Traffic Safety Investigations by means of an Augmented Reality Driving Simulation: Neurophysiological Measurements in Sleep Deprived Subjects"*

**Sophie Cote PhD Candidate**  
Cyberpsychology Lab  
University of Quebec in Outaouais  
*"The Use of a Pictorial Stroop Task and Psychophysiological Measures in Understanding Cognitive Mechanisms*

*Underlying Virtual Reality Exposure Effectiveness"*

**Eamon Doherty, PhD**  
Fairleigh Dickinson University  
*"Low Cost Facial/Mental Controlled Tele-robotic/Tele-Medicine System for Quadriplegic Persons"*

**Stephanie Dumoulin**  
Cyberpsychology Lab  
University of Quebec in Outaouais  
*"The sense of presence in videoconferencing and emotional engagement"*

**Uri Feintuch PhD**  
University of Haifa, Mount Carmel  
*"Development of a 'low end' multimodal feedback program for motor, cognitive and sensory rehabilitation"*

**Carlo Galimberti PhD**  
Università Cattolica del Sacro Cuore  
*"Artifact Based Trust in On-line Interactions 2: Relevance to telemedicine, on-line psychological counseling and therapy"*

**Azucena Garcia-Palacios PhD**  
Universitat Jaume I  
*"Comparing The Acceptance of VR Exposure vs. In vivo Exposure in a Clinical Sample"*

**Michael Heim PhD**  
Beach Cities Health and Healing Center  
*"Avatar Diplomacy"*

**Patricia Heyn PhD**  
University of Texas Medical Branch  
*"Virtual Reality Therapy: A Systematic Review of the Effectiveness of Interventions"*

**Jeonghun Ku PhD**  
Hanyang University  
*"A study of Brain activations and Presence in a Virtual Touching Task using fMRI"*

**Melanie Michaud**  
Cyberpsychology Lab  
University of Quebec in Outaouais  
*"Manipulating Presence and Its Impact on Anxiety"*

**Toni Nixon EdD**  
Image Institute



*"Therapeutic application of mental imagery in virtual reality, a report on current findings and suggestions for future study"*

**Matthew Parrott**

3D Interaction Group  
Virginia Tech

*"A Methodology for Designing Specific Animal Phobia Stimuli for Virtual Reality Exposure Therapy"*

**Matthew Parrott**

3D Interaction Group  
Virginia Tech

*"An Immersive Virtual Environment for the Treatment of Ophidiophobia"*

**Giuseppe Riva PhD**

Istituto Auxologico Italiano  
"VEPSY"

**Catherine Sabourin**

Cyberpsychology Lab  
University of Quebec in Outaouais

*"The Impact of Instructions on the Feeling of Presence During Virtual Immersions"*

**Julie St-Jacques**

Cyberpsychology Lab  
University of Quebec in Outaouais

*"Long-Term Effectiveness of In VR Exposure for Phobic Children"*

**Morris Steffin MD**

VRNEUROTECH

*"On-Board In-Vehicle Real Time Video Monitoring of Driver Alertness"*

**Dorothy Strickland PhD**

Do2Learn

*"Evaluating a Video Enhanced Virtual Reality Program for Teaching Restaurant Social Skills to Children with Autism"*

**Veronique Vaillancourt PhD**

University of Ottawa

*"Use of Audio VR to evaluate functional hearing abilities in the workplace"*

**Raquel Viciano-Abad MSc**

University of Malaga

*"The Importance of Significant Information"*

**Beth Yost**

Virginia Tech

*"Learning to Interact with People with Disabilities Using Virtual Environments"*

## SUNDAY, 11th January 2004

9:00 **Welcome – Giuseppe Riva PhD**

### **CyberEducation and CyberTraining**

**Session Chairs: Kay Howell PhD & Mark D Wiederhold MD PhD FACP**

9:15 **Jan Cannon-Bowers, PhD**  
University of Central Florida

9:30 **Clint Bowers, PhD**  
Dr. Clint A. Bowers, PhD University of Central Florida  
Team Performance Laboratory  
FAA/UCF/NAWCTSD Partnership for Aviation Team Training

9:45 **Kay Howell PhD**  
Learning Federation  
*"Advances in Using Simulations to Train Complex Decision-Making in Teams"*

10:00 **Mark D Wiederhold MD PhD FACP**  
Virtual Reality Medical Center  
*"Combat Medic Training"*

10:15 **Harvey Magee**  
Telemedicine and Advanced Technology  
Research Center (TATRC)  
*"Medical Modeling & Simulation (MM&S) Applied to Army Medical Training"*

10:30 **BREAK**

11:00 **DISCUSSION**

12:00 **LUNCH BREAK**

### **Funders Panel**

**Session Chairs: Walter Greenleaf PhD & Brenda K Wiederhold PhD MBA BCIA**

1:30 **Ro Nemeth-Coslett PhD**  
National Institute on Drug Abuse (NIDA)  
*"Virtual Reality at NIDA"*

1:45 **Harvey Magee**  
TATRC  
*"TATRC MM&S Summary & Funding Opportunities"*

2:00 **Walter Greenleaf PhD**  
*"Funding Opportunities at NIDDR"*

2:15 **Walter Greenleaf PhD**  
*"Strategies for Start-up Funding"*

2:30 **Question & Answer Session**  
3:00 **BREAK**

### **Anxiety Disorders**

**Session Chairs: Stephane Bouchard PhD & Sun I. Kim PhD**

3:30 **Cristian Sirbu PhD**  
Virginia Polytechnic Institute and State University  
*"How Active are Fear Structures During Exposure in Virtual Environments? A Test of Emotional Processing Theory in Acrophobia"*

3:45 **Brenda K Wiederhold PhD MBA BCIA**  
Virtual Reality Medical Center  
*"Clinical Analysis of 350 Patients Completing VR Therapy"*

4:00 **Ken Graap MEd**  
Virtually Better, Inc.  
*"Treating Fear of Flying in Virtual Reality"*

4:15 **David Walshe PhD**  
University College Cork  
*"Can MVA victims with Driving Phobia Immerse in Computer Simulated Driving Environments?"*

4:30 **Ioannis Tarnanas PhD**  
Aristotle University of Thessalonica  
*"A Clinical Protocol for the Development of VR Training in Disaster Exposure and Relief"*

4:45 **Albert "Skip" Rizzo PhD**  
University of Southern California  
*"Data, Development Issues and Future Visions from the USC Integrated Media Systems Center Virtual Environments Laboratory"*

### **CYBERARIUM: 6-9pm**

**Brenda K. Wiederhold PhD MBA BCIA**

### **MONDAY, 12th January 2004**

#### **Pain Distraction and Rehabilitation**

**Session Chairs: Giuseppe Riva PhD & Isabelle Viaud-Delmon PhD**

9:30 **Jeff Gold PhD**  
Children's Hospital of Los Angeles

*"A Controlled Study of the Effectiveness of Virtual Reality to Reduce Children's Pain During Venipuncture"*

9:45 **Hunter Hoffman PhD**  
University of Washington  
*"Virtual Reality Analgesia During Thermal and Electrical Pain for Longer Durations, and Multiple Treatments"*

10:00 **Robert Kline-Schoder PhD**  
Creare Incorporated  
*"Virtual Reality-Enhanced Physical Therapy System"*

10:15 **Uri Feintuch PhD**  
University of Haifa, Mount Carmel  
*"Effect of Performance Demands and Constraints Within Virtual Environments"*

10:30 **BREAK**

#### **E-health Applications**

**Session Chairs: Carlo Galimberti PhD & Brenda K. Wiederhold PhD MBA BCIA**

11:00 **Mignon Coetsee PhD**  
University of Cape Town  
*"A Low-cost VR Group Support System for People Living with HIV"*

11:15 **Cristina Botella PhD**  
Universitat Jaume I  
*"Telepsychology and Self-Help: The Treatment of Phobias Using the Internet"*

11:30 **C. Barr Taylor MD**  
Stanford Medical Center  
*"The Use of an Internet-based Program to Prevent Eating Disorders"*

11:45 **Giuseppe Riva PhD**  
Istituto Auxologico Italiano  
*"The VRTherapy Project: Free Virtual Reality Tools for Mental Health Therapists"*

12:00 **LUNCH with Richard Satava MD FACS**  
University of Washington Medical Center  
Special Assistant in Advanced Technologies at the US Army Medical Research and Materiel Command, Ft. Detrick, MD.

#### **Human-Robot Interactions**

**Session Chairs: Gary Gilbert PhD &  
Elena Libin PhD**

- 2:00 **Elena Libin PhD**  
Complex Interactive Systems Research,  
Inc.  
*"Interactive Robotic Creatures With  
Therapeutic Potential: Robotic Psychology  
and Robotherapy Project (RPR)"*
- 2:15 **Takanori Shibata PhD**  
AIST  
*"Robot Therapy at Elderly Institution by  
Therapeutic Robot"*
- 2:30 **Cheryl Trepagnier PhD**  
The Catholic University of America  
*"Design Trials of the Virtual Buddy:  
Progress Report"*
- 2:45 **Anna Lockerd**  
Anthrotronix  
*"Robotic Toolkit for Pediatric  
Rehabilitation, Assessment and  
Monitoring"*
- 3:00 **Eamon Doherty PhD**  
Fairleigh Dickinson University  
*"A Telerobotic System for Quadriplegic  
Persons"*
- 3:15 **Harvey Magee**  
TATRC  
*"Robotics in the operating room"*
- 3:30 **Gary Gilbert PhD**  
TATRC  
*"Robot Extractions on the Battlefield"*
- 3:45 **BREAK**
- 4:15 **Games for Health**  
Panel Discussion  
Moderator: **Mark D Wiederhold MD,  
PhD, FACP**  
Participants: **Stephane Bouchard PhD**  
**Barbara Hayes-Roth PhD**  
**Giuseppe Riva PhD**  
**Albert "Skip" Rizzo PhD**  
**David Walshe PhD**
- 5:30 **Adjourn until June 2005 in  
Switzerland...see you at the 10<sup>th</sup> Annual  
CyberTherapy Conference.**