

IONS 2.0 Tools and Technologies for a World Transforming

Transformative Media's Next Evolution: Emerging and Future Trends in Media Technologies for Personal, Societal and Global Transformation

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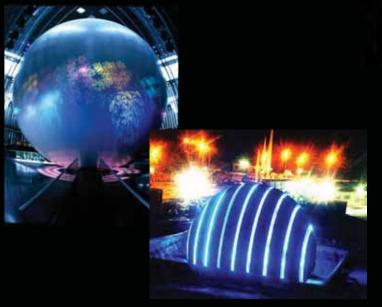


Artist /Writer/Inventor Hollywood, Florida Masters in Engineering w/Quantum Physics Tennessee Tech University





Aerospace Engineer Melbourne, Florida Planetarium Engineer Cocoa, Florida



My Story





Immersive Theater Engineer Chadds Ford, PA Cable Television Pioneer Philadelphia, PA





Interfaith Minister

Palanded's Presider Maxima, Joint 817 December 2003

SPHERES OF HEALING Chy Ed Long Eduar2010ell.com

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Writer, Speaker

My Story



Celebratory Drummer, Ritualist, Performer



Socially Benificial Organizations, Networking and Events

The universe is made of stories, not of atoms.

- Muriel Rukeyser

Storytelling: An Engineer's Definition

Story: An imaginative journey within the mind that evokes affective and cognitive neurological responses in viewer's brain and nervous system as if the story were real.

Storytelling: The art and science of invoking story narratives within the minds of audiences through various sensory stimulation channels and storytelling modalities.

Sensory Channels include auditory, visual, aroma, taste, haptic and various special effects. Digital channels require sensory interface devices.

Storytelling Modalities include: dialog, narration, music and sound effects (auditory); acting, cinematography, production design, visual effects (visual).

Neurological Response to Stories

Cognitive (thoughts, beliefs, language, etc.):

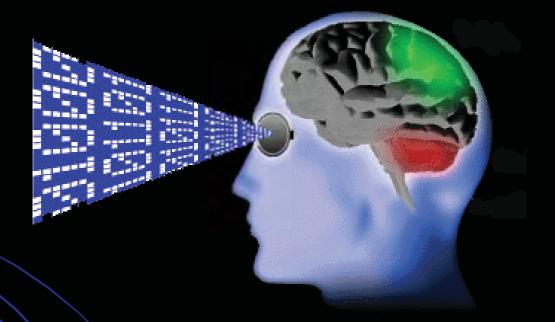
- Conceptualization, Imaging
- Problem Solving
- Rationalizations, Interpretations
- Recognition, Remembering
- Linguistic Articulation
- Realizations, Logical Connections
- Learning, Skills, Technical Information

Neurological Response to Stories

Affective (feelings, moods, reactions, etc.):

- Energized, Motivated *adrenaline*
- Ecstacy, Bliss, Connectedness *oxytocin, anandamide*
- Curiosity, Anticipation endorphins, beta-endorphins
- Chills, Goose Bumps *pilomotor reflex*
- Sense of Accomplishment norepinephrine, epinephrine
- Humor, Laughter, Pleasure dopamine
- Sexual Arousal androgens and estrogens
- Happiness, Satisfaction serotonin
- Relaxation GABA, anandamide

Transformative Media The Eyes and Ears are a Wideband Interface to the Brain



Arts, Media and Entertainment are Powerful Tools for Reprogramming our Neural Software

Transformative Media

An experience that substantially alters a person's "possibility space" or life path

- Discovering new facts, cultures, connections
- Epiphany, realization, revelation
- Spiritual, numinous, or "unity" experience
- Awakening to empathy, compassion, love
- Often triggered by new friends, social circles
- Trauma, loss, fear, etc. can also be transformative

transformed world view = transformed world



THE ACADEMY OF MOTION PICTURE ARTS AND SCIENCES



WHERE DO WE GO FROM HERE?

DECEMBER 2, AT THE SAMUEL GOLDWYN THEATER

Arts, Media & Entertainment Modalities







Giant Screen & Digital Dome Theaters



Mobile Media & Apps



Music, Video & Print Publishing



Cable & Broadcast TV

Video Games



Theater, Opera & Live Performances



The Fine Arts



Online Media & Social Networking



Digital Cinema & Feature Films





Virtual Reality & Augmented Reality

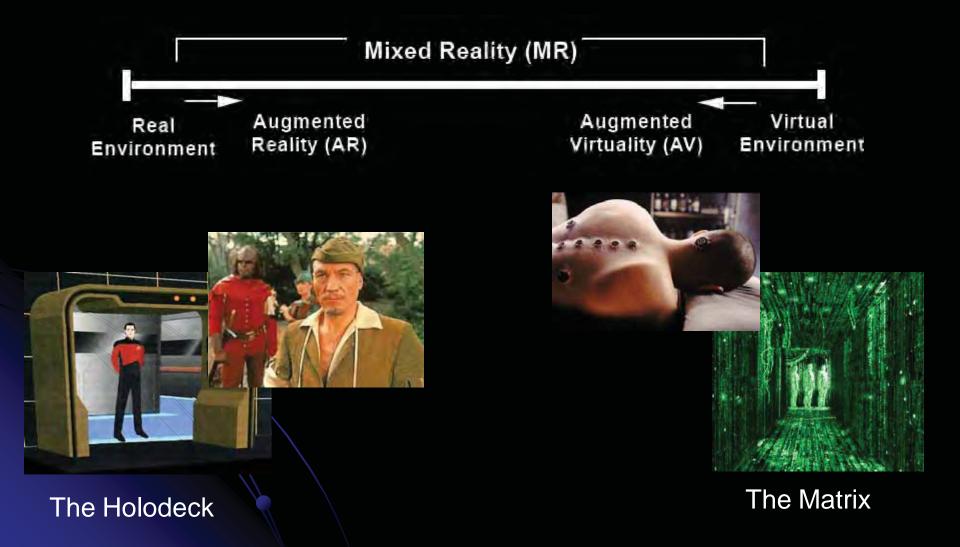


Themed Entertainment



Art & Music Festivals

Spectrum of Virtual Reality



Gesture Interactive Surfaces



Gesture Interactive and Multi-Touch Displays

- Interactive tables, walls, floors,
- Kiosks and tradeshow

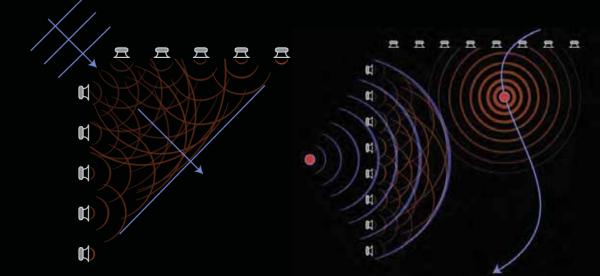
Stereoscopic 3D and Autostereo Displays



Holographic Audio

- IMAX Producers Claim Audio is 60% of the Experience
- Holographic Wavefront Reconstruction
 - Sound sources can be placed anywhere within theater space
 - Virtual plane waves provide identical directionality for all seats
 - Commercial system now available (IOSONO)





4D Theater Effects: Multisensory Stimulation

- Fog, Strobes, Bubbles, Mist, Snow
- Face Blast/Mist/Scent Air, water mist, scent blast from seat in front
- Seat Transducer Audio shaker based in seat pan
- Seat Back Audio FX Audio speakers located in seat back
- Seat Cushion Air Poker Seat cushion inflation with poker
- Seat Cushion Ripple Small air bladders that inflate/deflate in sequence
- Seat Back & Cushion Buzzers Seat vibration in cushion and back
- Seat Back Air Bladder Gentle seat back motion inflation/deflation
- Leg Tickle Pneumatic tickle at back of leg
- Neck Tickle Air tickle at neck left and right
- Seat Cushion Drop Sudden seat cushion deflation
- Seat Motion Translation, rotation



Courtesy Tehcnifex



Next-Gen Cinema





Interactive Lounge and Restaraunt



Premium Cinema



Digital Immersive Dome



Personal On-Demand Spaces (PODS)



Live Performances



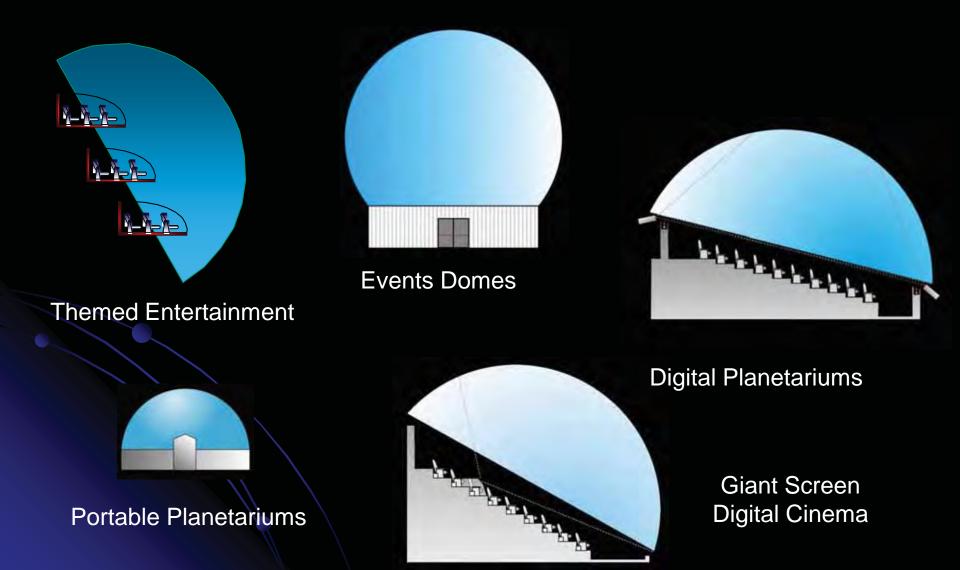
Video Game Tournaments

Immersive Cinema Digital Dome or "Fulldome" Theater



Large-scale, real-time interactive group immersive environments

Digital Dome Growth Markets 850 Digital Dome Screens Worldwide



Sampling of Fulldome Theaters



Volkswagen Autostadt Wolfsburg, Germany

Morrison Planetarium California Academy of Arts and Sciences San Francisco, CA





Papalote Museo del Niño Mexico City

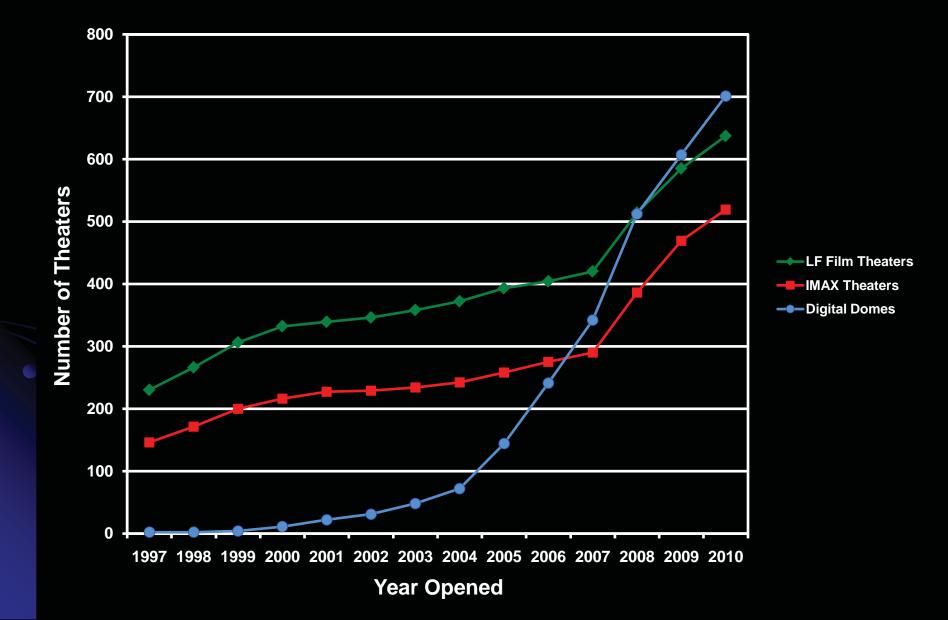


Bibliotheca Alexandrina Alexandria, Egypt



Hayden Planetarium Rose Center for Earth and Space American Museum of Natural History New York, NY

Fulldome Theaters Worldwide



Digital Planetariums

Fulldome Planetariums allow Navigation through a Scientifically Accurate Model of the Known Universe



Images Courtesy SCISS AB www.scalingtheuniverse.com

Immersive Cinema Productions



Live Immersive Performances



Bridge Dance League



Bella Gaia Kenji Williams

> Two Voices, One Vision C3 Vision Lab



David Arkenstone



Bella Gaia



A Non-Narrative SciArt Experience

- Features NASA and NOAA Earth Science Datasets
- Music and Immersive Visuals create Powerful Experience
 - Cognitive Goal: Earth Science Understanding
- Affective Goal: Overview Effect

Mobile Dome Venues







Geodesic (Rigid Structure)

Mobile Dome Venues



Nike Quad Dome Event



SciDome[™] Trade Show Dome

- Portable Planetariums, Art Exhibits
- Events, Tradeshows, Festivals

Vortex Dome Los Angeles Center Studios

ft.



Next-generation immersive cinema events venue and development studio

Venue Specifications:	
Diameter	
External: 5	50'
Internal w/video screen):	45' 9"
Floor Area:	1,963 sq
Standing Capacity:	280
Theater Seating Capacity:	120





Push4Peace Dome Tour



Push4Peace Dome Tour

- 2012/2013 national tour
- Over 20 peace organization affiliates
 - UN International Day of Peace
 - Earthdance International
 - Dali Lama Foundation and more...
- Provide transformational experiences
 - Heart opening, inspirational, uplifting WOW!
 - Model how humans can achieve peace
 - Story of humanity's evolution and future
- Call participants to action (inner/outer)
- Information dissemination & networking



Push4Peace Dome Tour



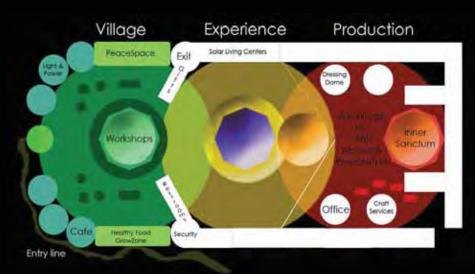
ArcheDream for Humanity



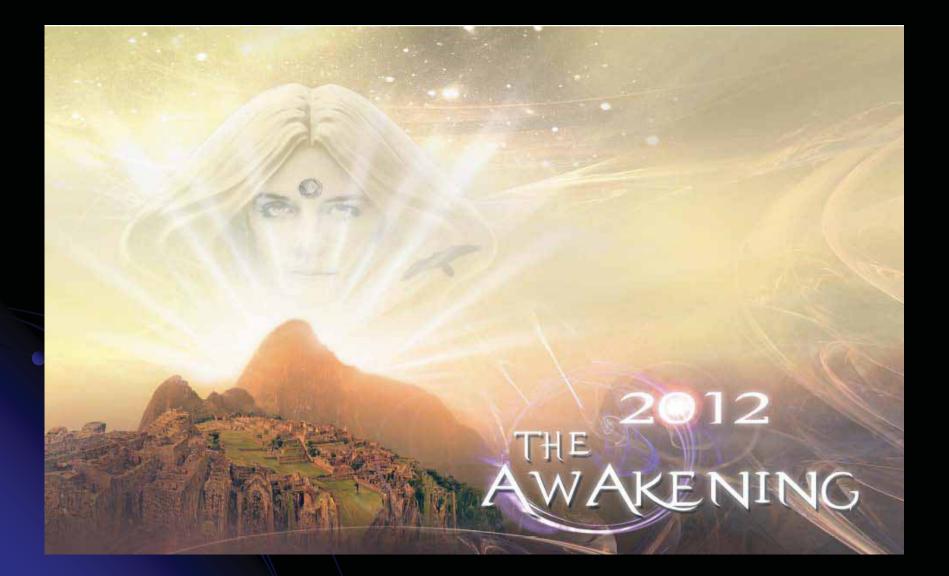


Jeff McBride





The Awakening Dome Tour



The Awakening Dome Tour

- Created by Andre RIPA
- Journey of Remembrance
 - Magical journey of the Soul
 - Highlights human potential
- Multi-media Dome experience
- Music, 3D projections, song and dance
 Currently Seeking Sponsors

The Awakening Dome Tour







A New Genre of Entertainment

the Walk_

The Walk is an event venue providing state-of-the-art experiences for relaxation, inspiration and transformation; a tune up for the body, mind and spirit.

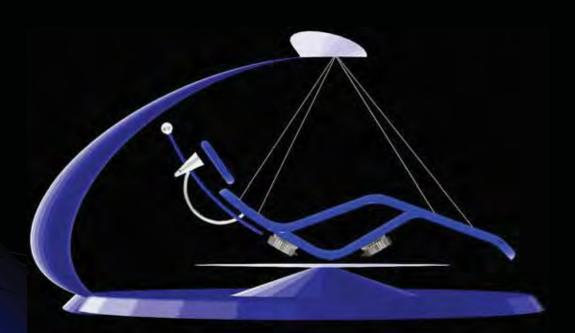
- Entertainment technology integrating color, immersive visuals, surround sound, aroma, vibration and movement.
 - Participatory experiences that amplify personal creative expression.
- Interactive art installations from creative artists around the world.
- An ongoing showcase for ground-breaking entertainment technology
- Created by Zubin Levy

Main Chamber

Participants are seated in floating simulator chairs to experience the first fully integrated multisensory system combining vibration, surround sound, aroma, and immersive imagery that produce a heightened state of consciousness and relaxation.



Main Chamber Experiences





Inspirational and stress reducing journeys



The Digital Spa's Purpose is Simple:

Deliver Experiences that Make People Feel Better and Promote Wellness

How?

Provide powerful immersive experiences that are:
Soothing, relaxing, inspiring, healing
Meditative, contemplative, beautiful
Energizing, invigorating, awe-inspiring
Transformative, uplifting



Inspirational and stress reducing journeys

Sampling of Programs for the Digital Spa:

- Ambient Environments
- Nature and Space Journeys
- Harmony Channel's MoodZones
- Vibrational Healing
- Immersive Cinema Productions
- Virtual Worlds
- Neurofeedback Games and Experiences
- Virtual Reality Healing
- Digital Planetarium

Ambient Environments



Nature Journeys









Space Journeys









Vibrational Healing Music

With immersive music visualizers/screensavers

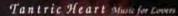






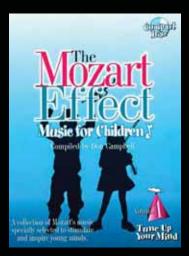








SHASTRO



Transformative Films

Mind-opening, thought provoking, inspiring, etc.



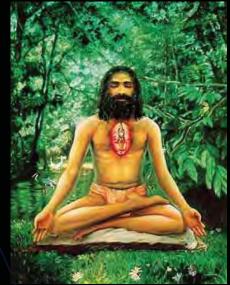
Virtual Worlds

Virtual worlds with wellness themes

- Art and entertainment experiences
- Collaborative/creative social circles
- Spiritual celebrations, ceremonies, meditations
- Counseling, mentoring, coaching sessions









Neurofeedback Games & Experiences





Emotiv Systems www.emotiv.com

Wild Divine & Healing Rhythms WildDivine.com Epoc can differentiate between thoughts such as lifting or rotating an object; detect and mimic a user's expressions such as a smile or wink; and respond to emotions such as excitement or calmness.

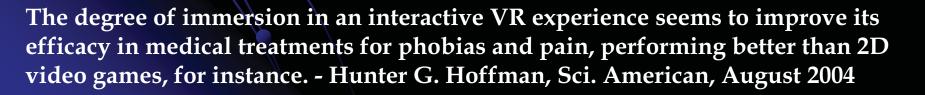
Virtual Reality Healing



-Pain Management
-Phobia Treatment
-Technology-enabled conflict negotiation
-PTSD treatment
-Anxiety disorders
-Addictions
-Eating disorders
-ADHD treatment

Cybertherapy Conference interactivemediainstitute.com/index_conf.html

> Virtual Healing (book) Brenda K. Wiederhold, Ph.D., MBA, BCIA vrphobia.com







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Thank You!

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