

IMAGE 2022



TUESDAY (20 September)

Gold Host

FSI Defense

A FlightSafety International Company

Scott Baughman

Business Development

- 0800 OPEN CONFERENCE
The IMAGE Society
- 0810 WELCOME & OPENING REMARKS
Scott Baughman, FSI Defense
- 0830 FEATURED PRESENTATION
[Keynote Address]
- ORGANIZATIONAL PRESENTATIONS
- 0900 Scalable Display Technologies
- 0920 FSI Defense
- 0940 3D perception
- 1000 Beverage Break & Exhibits
Sponsored by Norxe
IMAGE SILVER HOST
- 1020 Norxe
- 1040 Immersive Display Solutions
- 1100 TREALITY SVS

- 1120 GBvi
- 1140 project:syntropy
- 1200 Luncheon Social & Exhibits
Sponsored by FSI Defense
IMAGE GOLD HOST

SYNTHETIC NATURAL ENVIRONMENTS

Chair: Daniel J. Bicket, Boeing

- 1300 Realistic 3D Digital Twin generation
leveraging satellite and street view
imagery
Grégoire Geffroy, Presagis

1330 DATABASE WORKSHOP

by FSI Defense

Ryan Franz

Open Database Standards

- Historic Paradigm Shifts in Database Technology
- Taxonomy of Current Database Formats
- Challenges with Data
- Current Trends in Data Organization
- OGC
 - 3D Tiles 1.1 Improvements
 - CDB 1.x changes
 - CDB 2.0 proposed changes
- Metaverse
- Roundtable Discussion

- 1500 Beverage Break & Exhibits
Sponsored by 3D perception
IMAGE SILVER HOST

IMAGE GENERATOR TECHNOLOGIES

Chair: Tim Woodard, NVIDIA

- 1520 What is an Image Generator? A Survey
of System Architecture and Roles
Doug Gill, FSI Defense

- 1550 Roof details detection through the
generation of synthetic geo-spatial
labeled imagery with DatasetGAN
Vincent Rougeau-Moss, Presagis
- 1620 Current Evolutionary Forces on Visual
Simulation and Image Generation
Doug Gill, FSI Defense

CLOSING REMARKS

Scott Baughman, FSI Defense

Conference Reception

Dayton Country Club

Sponsored by the IMAGE Society

WEDNESDAY (21 September)

Gold Host

Scalable Display Technologies

Kevin Amaratunga, PhD

VP of Engineering

- 0800 WELCOME & OPENING REMARKS
Kevin Amaratunga, Scalable
- IMAGE GENERATOR TECHNOLOGIES
Chair: Tim Woodard, NVIDIA
- 0810 Demystifying the Metaverse for
Modeling, Simulation, and Training
Tim Woodard, NVIDIA
- 0840 IG TECHNOLOGIES & SYNTHETIC
ENVIRONMENT PANEL DISCUSSION
DISPLAY SYSTEMS
Chair: David Emig, FSI Defense
- 0910 Utility of Faster Pixels; Beyond 120Hz
Frame Rate
David Emig, FSI Defense

- 0940 Utility of More Pixels; Beyond 4k Resolution
David Emig, FSI Defense
- 1010 Beverage Break & Exhibits
Sponsored by TREALITY SVS
IMAGE SILVER HOST
- 1030 Speckle Characteristics in True Solid-State illumination Technology Projectors
Craig Maddock, Norxe
- 1100 Challenges of a Massive, ultra-Precision Visual Display System
Christoph Bode, project:syntropy
- 1130 Operational Based Vision Assessment (OBVA) Laboratory Research Update and KC-46 Remote Vision System Research
Eleanor O'Keefe, PhD, Operational Based Vision Assessment Laboratory, AFRL, 711th Human Performance Wing, Airman Systems Directorate (711 HPW/RHBC)
- 1200 Luncheon Social & Exhibits
Sponsored by
Scalable Display Technologies
IMAGE GOLD HOST
- 1300 Perceptual and performance effects of binocular misalignment in an HMD augmented reality simulation
Eric Seemiller, PhD, Operational Based Vision Assessment Laboratory, 711th Human Performance Wing, USAF

- 1330 **DISPLAY WORKSHOP**
by Scalable Display Technologies
Kevin Amaratunga, PhD
Tyler Johnson, PhD
- Scalable Auto Calibration Tools for Display Alignment and Maintenance
- Design Considerations for Auto Calibration
 - Display Calibration Architecture & Workflow
 - Color, Luminance & Black Level Correction
 - Perspective Correction and Collimation
 - Display Evaluation & Maintenance
 - Roundtable Discussion

- 1500 Beverage Break & Exhibits
Sponsored by
Immersive Display Solutions
IMAGE SILVER HOST

- 1520 **DISPLAY SYTEMS & VISION SCIENCE**
PANEL DISCUSSION

- 1620 CLOSING REMARKS
Kevin Amaratunga, PhD
Scalable Display Technologies
- Adjourn (Conference Ends)

Greet & Meet Exhibitors

Scalable Display Technologies
FSI Defense
3D perception
Norxe
Immersive Display Solutions
TREALITY® SVS
GBvi
project:syntropy