



















The Simulation Exploratory Experience































In MMXVII, you could be selected to be part of the next edition of Simulation Exploration Experience (SEE)



Are you ready for the Challenge?

Would you know more about SEE?































The Simulation Exploration Experience (SEE), education opportunity in Higher Education prepares College Students



Priscilla Elfrey KSC NASA

Richard Severinghaus CRTN Solutions, LLC



















































VIRTUAL ENGINEERING CENTRE















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My projected path to the Moon is better than yours





























SEE Simulation Exploration Experience

























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My projected path to the Moon is better than yours





























Simulation Exploration Experience **Basics**



- What is the SEE Simulation?
- Why do we have a SEE?
- Who is involved in SEE?
- When are the SEE events held?
- Where are the SEE events held?





















































SEE Aim







- The SEE (formerly Smackdown) is an effort to promote the concepts of M&S as a discipline at the University Undergraduate, Graduate, PhD Levels, Postgraduates and, even, to raise the awareness of Modeling & Simulation down into the K-12 grades
- This is accomplished through an anticipation program involving students and faculty in "building" an HLA based distributed simulation of a space system
- For first Years, Smackdown Topic was simple such as: A Lunar Base Scenario













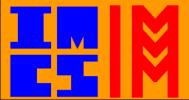








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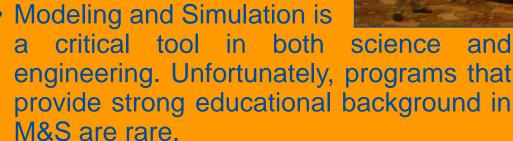


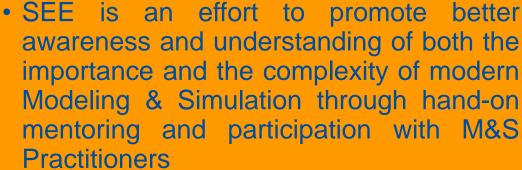






Why SEE?





 Interoperable Simulation Evolution HLA Evolved) requires to be diffused



















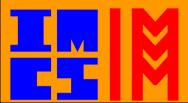






































NASA Leadership







My projected path to the Moon is better than yours

















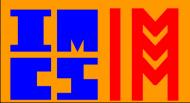






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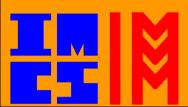


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SpringSim 13M WAMS / CAX Forum



























San Diego → Rome → Toronto → Athens → Buenos Aires













VIRTUAL





























For SISO SmackDown 2013, event organizers welcome interest from universities in the US, Europe, Near East and Far East. Additional support comes from the NASA KSC Center for Life Cycle Design's (CfLCD) summer intern team, Creative Humanics Laboratory (CHL). CHL, comprised of students from the Institute of American Indian Arts (IAIA) and other tribal colleges who created and updated this website as a "SISO SmackDown Starter Kit" to enable each team to participate more efficiently and with a higher level of collaboration.























SEE 2014 as Evolution

Tampa → Bordeaux → Istanbul

Learn More

TAMPA, FL APRIL 13-16

















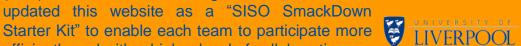














www.liophant.org/conferences/2016/see www.exploresim.com





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FLABOUT

Learn More



















SEE 2015 Arlington























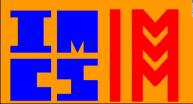








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Smackdown Federation





Middleware: HLA 1516 Evolved

MäK / Pitch





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PiTCH 🎱



















SEEHLA Evolved Federation III Massachusetts Institute of Technology















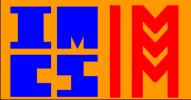








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Federates from Europe

Italy France Germany UK



















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Federate from Alabama



















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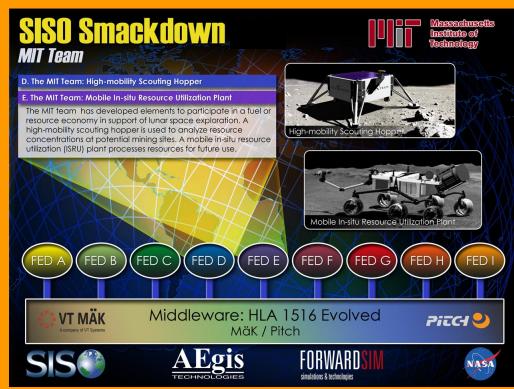








Federates from MIT



















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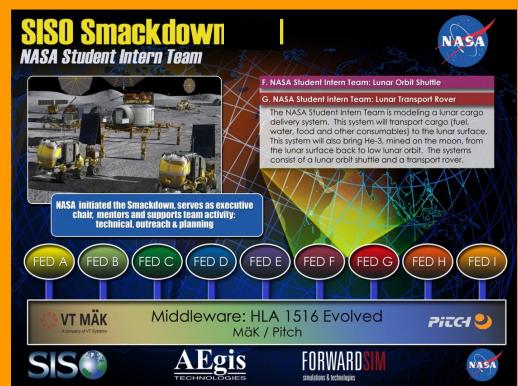








Federates from NASA



















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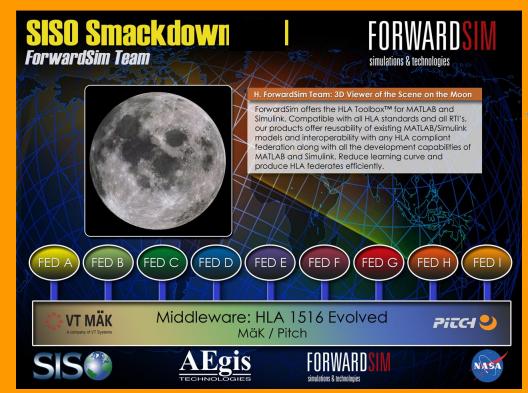








Federate Viewer

















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Massachusetts

SMACKDOWN 2012





Awards





During Smackdown 2012, best projects from Academia was awarded by the Scientific Committee of Smackdown2012; the Simulation Team was awarded with two Award for his contribution to the HLA Moon Base Simulation; We achieved "Standard Award" and "Interoperability Award"; in fact our Federates, SPIRALS and IPHITOS, was the only one able to run in both MAK and Pitch Federation Concurrently.

IPHITOS

- · Prof.A.G.Bruzzone MISS Diptem Genoa University, Italy Prof.P.Teofilatto - University of Rome - La Sapienza, Italy
 - . Dr.Antonella Spano' MBDA La Spezia, Italy
 - Dr.Luca Piazza Bonati MBDA La Spezia, Italy
 - Dr.Tonino Genito MBDA Rome, Italy
 - . Dr.A.Garro UNICAL, Italy
- . F.Madeo, Simulation Team, Italy

Dr.E.Bocca - Mast Srl. Italy

- . M.Biagini, DIMS, Genoa University

. Prof.A.G.Bruzzone - MISS Diptem Genoa University. Italy

· Prof.G.Zacharewicz - University of Bordeaux, France

- . J. Villanueva, Genoa University
- . F.Tarone, MAST srl. Italy . D.Ferrarotti, Pisa University
 - · G.Cantice, DIMS, University of Genoa, Italy

 - . M.Turi, DIMS, University of Genoa, Italy

 - . M.Pontani, La Sapienza, Italy



SPIRALS

Projects



























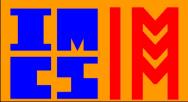








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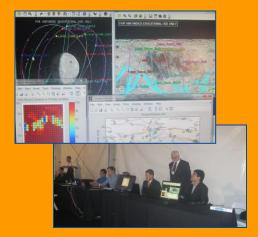








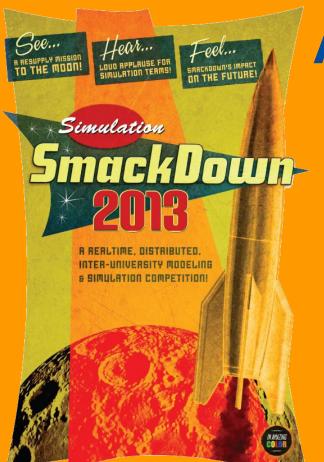




VT Mak Pitch **Springer** Awards &

IPad Full Licences New M&S Books Plaques

i.e. Genoa University Team obtained Award for Best Co-ordination





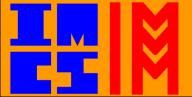








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SMACKDOWN ITEC2013 Rome













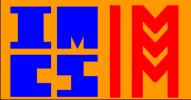








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SIMULATION EXPLORATION EXPERIENCE











SMACKDOWN 2015

Arlington



























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SMACKDOWN PROPOSED NETWORK ARCHITECTURE

SMACKDOWN PRIVATE NETWORK GATEWAY: 192.168.15.1 PITCH RTI: 192.168.15.2 MAK RTI: 192.168.15.3 STATIC IPS: 192.168.15.10-49 SSL-VPN CLIENTS: 192.168.15.50-199 DHCP CLIENTS: 192.168.15.200-253 DHCP SERVER: 192.168.15.254

INTERNET













SMACKDOWN Network



















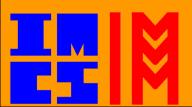








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SEE

Organization



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MARKETING TEAM

Creative Humanics Laboratory, Center for Life Cycle Design, NASA KSC: Craig Tompkins, Lead

Webmaster: Louva Hartwell



Massachusetts
Institute of
Technology











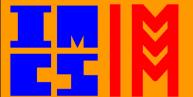






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SPONSORS Aegis Technologies ForwadSim VT Mäk **Pitch Technologies**



PARTNERS NASA

Simulation Interoperability Standards Organization (SISO) Class: MIT **SCS Space Community Forum** Global Institute for Cyber Security and Research (GICSR) Simulation Team

LOCAL Supporters CMRE MIMOS

ACADEMIA

Massachusetts Institute of Technology The University of Alabama Huntsville The Institute of American Indian Arts The University of Genoa The University of Bordeaux Pennsylvania State University **Ajou University Brunel University Universitat Munchen University of Nebraska**



SEE Actors









ACADEMIC OPPORTUNITIES

SmackDown Team Project: Genoa University Introduction to M&S: RKS Tribal College Class: University of Alabama Huntsville

Capstone Course: Pennsylvania State University **Project Team Members: University of Pisa**

Internship: MBDA, MAST, Lio Tech, CMRE Independent Study on 3D Modeling: Institute for

American Indian Art

Research Study: Technion Institute of

Technology, Israel

Independent Study on Interoperability:

University of Bordeaux

Project Team Members: La Sapienza, Rome

Branding CHL Team at KSC













SCIENTIFIC ORGANIZATIONS

DİSC **Alabama Modeling and Simulation Council** Institute of Electrical and Electronics Engineering (IEEE)

Liophant Simulation

National Center for Simulation (NCS)

National Center for Simulation (NCS)
National Training and Simulation Association (NTSA)



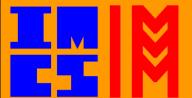




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SimSummit Society for Modeling and Simulation International (SCS)

Virginia Modeling Analysis and Simulation Center (VMASC) universität



























SEE 2015 → 2016



If you are interested in future developments don't hesitate to contact:

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www.exploresim.com























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Discussions



Time for Questions &





























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