The 1st Symposium on Space Architecture will take place at World Space Congress 2002 from October 10 - 19 at the George C. Brown Convention Center in Houston, Texas, USA. WSC 2002 is destined to be the largest international space conference ever held and is an ideal forum at which to hold this pioneering Symposium.

Space Architecture has come of age over the last decade with the emergence of permanent habitation in Earth orbit and growing prospects for bases on the moon, Mars and beyond in the decades ahead. Architects, industrial designers and sociologists from around the world have been at work on real and experimental designs for orbital and planetary structures. They will present research papers over two days, October 10 and 11, and will participate in a workshop on the October 12.

Symposium topics will range from International Space Station habitation refinements, to construction materials testing in space, to architectural education for the practise of Space Architecture. The 1st Symposium on Space Architecture is endorsed by the American Institute of Aeronautics and Astronautics (AIAA) and is organized by the AIAA Technical Subcommittee on Aerospace Architecture.

FOR GENERAL INFORMATION ON WSC 2002
visit the AIAA website at: www.aiaa.org/WSC2002

FOR GENERAL ENQUIRIES ON WSC 2002
 e-mail to: wsc2002@aiaa.org

FOR INFORMATION ON THE SPACE ARCHITECTURE SYMPOSIUM
In Europe: Andreas Vogler at: andreas.vogler@lrz.tum.de
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In Asia: Scott Howe at: ash@plugin-creations.com
or Jun Okushi at: jokushi@beige.ocn.ne.jp
# Program

## Thursday, 10 October 2002

### Plenary 1

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<td>Welcome</td>
<td>Marc M. Cohen (chair)</td>
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<td>Theodore W. Hall (co-chair)</td>
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<td>A. Scott Howe (co-chair)</td>
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<td>08:30</td>
<td>Observations of the Performance of the U.S. Laboratory Architecture</td>
<td>W. Rod Jones</td>
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<tr>
<td>09:30</td>
<td>Paradigms for AeroSpace Architecture</td>
<td>Theodore W. Hall (chair)</td>
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<td>Brent Sherwood</td>
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<td>10:00</td>
<td>Design Organizational Principles for Earth Orbital Architecture</td>
<td>Kriss J. Kennedy</td>
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<td>10:00</td>
<td>The Vernacular of Space Architecture</td>
<td>Zann Gill</td>
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<td>10:30</td>
<td>Designing a Think Tank to Study Design</td>
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<td>11:00</td>
<td>Architectural Design Method for the Configuration of a Manned Inflatable</td>
<td>Matthew Herman</td>
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<td>13:00</td>
<td>Lessons from TransHab: An Architect's Experience</td>
<td>Kriss J. Kennedy</td>
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<td>14:00</td>
<td>Human Dimension in AeroSpace Architecture</td>
<td>Alice Eichold (chair)</td>
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<td>14:00</td>
<td>Kalil Studio: Proportion and Meaning as Key Components of Space Station</td>
<td>Michael Krieh, Jean Gardner</td>
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<td>14:30</td>
<td>Color in Space Architecture</td>
<td>Maria Joao Durao</td>
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<td>15:00</td>
<td>Designing for Space</td>
<td>Annalisa Dominoni</td>
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<td>15:30</td>
<td>Designing the Human-Machine Interface in Industrial Design</td>
<td>Aleksandra Konopek</td>
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<td>16:00</td>
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<td>16:15</td>
<td>Extended Mission Systems Integration Standards for the Human-Environment</td>
<td>Marilyn Dudley-Rowley, Sheryl L. Bishop</td>
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<td>17:15</td>
<td>Design Participation in the Human Exploration Demonstration Project</td>
<td>Marc M. Cohen</td>
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Program

Friday, 11 October 2002

Plenary 3
08:00 - 08:45 An Overview of Lunar Base Structures: Past and Future Haym Benaroya
08:45 - 09:00 Short Break

AeroSpace Architecture Construction Marc Cohen (chair)
09:00 - 09:30 International Space Station (ISS) Internal Volume Configuration (IVC) David J. Fitts
09:30 - 10:00 Low Cost Carriers for On-Orbit Testing of Construction Materials for Space Habitats David Nixon, Nicholas Larter
10:00 - 10:30 The Ultimate Construction Toy: Applying Kit-of-parts Theory to Habitat and Vehicle Design A. Scott Howe
10:30 - 10:45 Short Break

Innovative Design Concepts A. Scott Howe (chair)
10:45 - 11:15 A Flexible Interior Design Concept for Space Applications Kenji Nozaki, Hernan Lorenzo, Shinji Matsumoto, Toru Mitsuhashi, Kenji Takagi, Serkan Anilir
11:15 - 11:45 Retrofitting Space – The Design of a Crew Quarter and Kit of Parts for the ISS Susan M. Fairburn
11:45 - 13:00 Lunch Break

13:00 - 13:30 Changing the TransHab: An Orbiting Space Hotel Paola Favata
13:30 - 14:00 Mission Architecture Concepts for Mars Returned Sample Handling Marc M. Cohen
14:00 - 14:15 Short Break

AeroSpace Architecture as a Discipline Marilyn Dudley-Rowley (chair)
14:15 - 14:45 Education for Aerospace Architects A. Scott Howe, Theodore W. Hall, Andreas Vogler, Mireille Downard
14:45 - 15:15 The Munich Model: Creating an Environment for Space Architecture Development Andreas Vogler
15:15 - 15:45 Space Architecture Education in Milan Annalisa Dominoni
15:45 - 16:15 AST – AeroSpace Architect Specialty for NASA Marc M. Cohen
16:15 - 16:30 Short Break

Panels
16:30 - 17:15 Panel: Space Architecture as a Discipline Marilyn Dudley-Rowley (moderator)
17:15 - 18:00 Panel: International Space Architecture Constance Adams (moderator)
Program

Thursday – Saturday, 10–12 October 2002

Posters
Built for Flight: An Evolutionary Approach to AeroSpace Access Planning and Design
Constance Adams, Ardis Wenda, Angel Rivera

Project Diomedes: The First Virtual, Web-Based, Interactive Human Mars Reference Mission
Nancy Asbury, John Cicora, Sonja Holmes, Ray McCall, Kurt A. Micheels, Dane Spangler
Paola Favata
Jean Gardner
Theodore W. Hall
Arturo Vittori
Andreas Vogler

TransHab Space Hotel
Kalil Studio: Space Station Interior Design
Envisioning Artificial Gravity
Moon Base of First Generation
Munich Space Projects
Topics

EXAMPLES FROM PAPERS AND POSTERS

SPACE STATION LABORATORY MODULE PERFORMANCE
Rod Jones, NASA-Johnson Space Center

PROPORTION AND MEANING IN SPACE STATION DESIGN
Michael Kreigh, Kalil Studio

KIT-OF-PARTS THEORY AND SPACE HABITAT DESIGN
Scott Howe, University of Hong Kong

THE MUNICH MODEL FOR SPACE ARCHITECTURE
Andreas Vogler, University of Technology, Munich
Topics

EXAMPLES FROM PAPERS AND POSTERS

LESSONS FROM THE TRANSHAB PROJECT
Kriss Kennedy, NASA-Johnson Space Center

TRANSHAB AS AN ORBITING SPACE HOTEL
Paola Favata, Architect

MARS ROVER VEHICLE AND AIRLOCK CONCEPTS
Marc Cohen, NASA-Ames Research Center

NEW CARRIERS FOR MATERIALS SPACE TESTING
David Nixon, Astrocourier (Ireland) Ltd