2004 Advanced Aerospace Technologies Course (AATC)

Presented by
The Computing, Information and Communications Technologies (CICT) Program

Robert Shiner

CICT Education Outreach

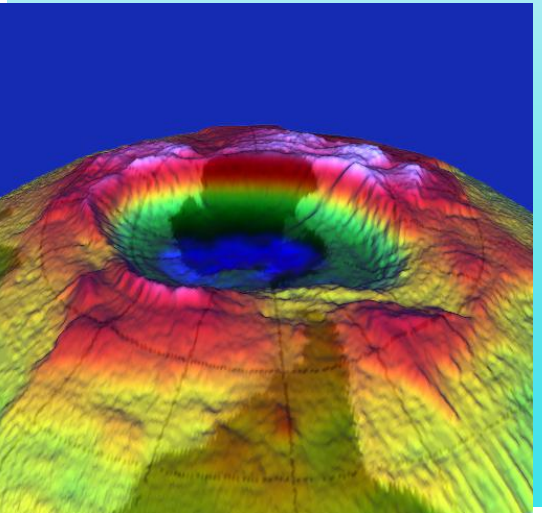
September 7, 2004

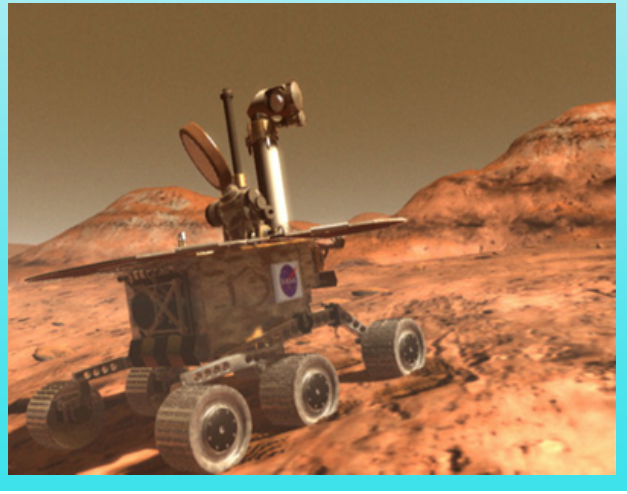
CICT Program Goal

Enable NASA's Scientific Research, Space Exploration, and Aerospace Technology Missions

with greater mission assurance, for less cost, with increased science return

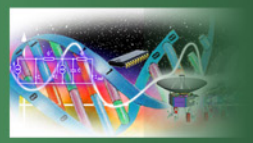
through the development and use of advanced computing, information and communications technologies.

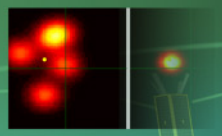


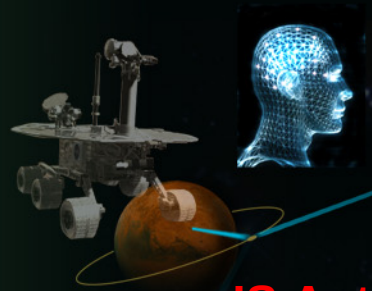


CICT Program Overview
Integrated Capability Goal

IT Strategic Research



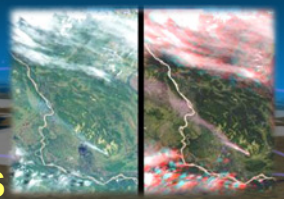




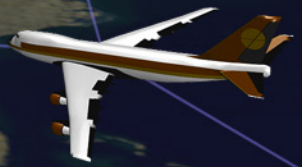
IS Automated Reasoning

Space Communications

IS Intelligent Data Understanding



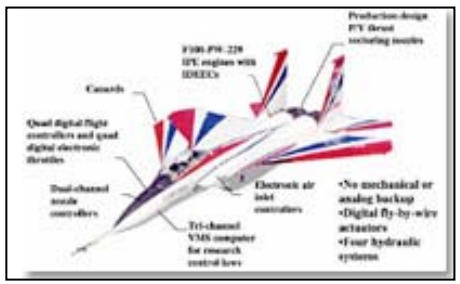
Computing, Networking and Information Systems



IS Human-Centered Systems

AATC Course

Sept. 7, 2004
Introduction: Advanced Aerospace Technologies Development at NASA
Management Overview
Robert Shiner
Manager, NASA CICT Education Outreach



Sept. 7, 2004 (Continued)
SESSION 1: Intelligent Flight Controls (ITSR)
Dr. Gundy-Burlet,
Research Scientist
Adaptive Control Technologies Group

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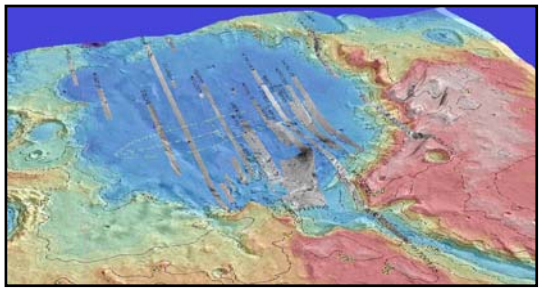
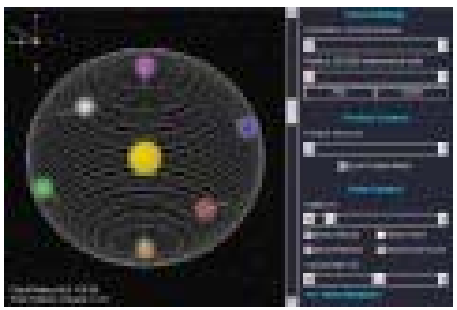


Sept. 8, 2004
SESSION 2: <u>Selecting Research Locations On Mars</u>
(CNIS)
Glenn Deardorff, Contractor, Advanced Management Technologies
Co-presenter Dr. Virginia C. Gulick, SETI

Includes real time use of Marsoweb Site Database by Students



Sept. 9, 2004
SESSION 3: <u>The Inter-planetary Internet</u>
(SC Grantee)
Dr. Adam Frank. Associate Professor of Astrophysics, University of Rochester (New York), Co-founder of Truth & Beauty Software

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Sept. 14, 2004
SESSION 4: <u>Personal Assistants in Space</u>
(IS)

Keith E Nicewarner, Research Scientist

Sept. 15, 2004
SESSION 5: <u>Science Discovery Using Computation And Observation</u>
(IS)
Dr. Joseph Coughlan Manager, CICT/IS

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Sept. 16, 2004
SESSION 6: <u>Generating and Verifying Aerospace Software</u>
(ITSR)
Dr. Bernd Fischer, Co-investigator, USRA RIACS

Sept. 21, 2004
SESSION 7: <u>Speedlearning Technology and Aerospace Careers</u>
(CICT Program MOU)
Dr. Richard Sutz - Principal Investigator - The Literacy Company

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Sept. 22, 2004
SESSION 8: <u>Neural Electric Machine Control</u>
[Extending Human Senses]
IS
Kevin Wheeler, ARC

THE FINAL EXAM FOLLOWS THIS SESSION

NOTE: This schedule and list of presenters is subject to change based on NASA priority and presenter availability
Please consult the CICT/AATC web page for the most current updates
http://cictedu.arc.nasa.gov/index.html