

Everything You Always Wanted to Know About Space — And More!

AN OVERVIEW OF SPACE

The U.S. Space Program • Soviets and Other Nations in Space • Space Colonies (Gregg Maryniak, Exec. V.P., Space Studies Institute) • Apollo: Was It Worth It? (historian John Logsdon) • Has the Space Program Paid for Itself: New Studies • What Next: An Integrated, Step-by-Step Space Plan • Building Moon Bases • Space Commercialization • Space and the Environment • Solar Power Satellites • Refitting the Shuttle Between Missions • National Aerospace Plane (Dr. David Webb) • Charles Walker and other astronauts • *Informal meetings with NASA officials* [Sat./Sun.]

SPACE SCIENCE & TECHNOLOGY

Science & Space [Fri.] — *Hon. Chairman Dr. John Simpson* (U. of Chicago) — Voyager at Neptune: A Preview (Norman Haynes, JPL Voyager Project Director) • Future Science Missions • The Orbiting Space Observatories • Space Science in the Midwest • Anti-Matter Propulsion (Dr. Robert Forward) • NASA's Pathfinder and Future Projects Programs — (*Including Joseph Alexander*, NASA Assistant Associate Administrator)

Moon Bases [half-day, Sat. aft.] — Overview (*Chairman Dr. Wendell Mendell*, Chief Scientist, Lunar Base Studies, NASA-JSC) • Designs (Peter Land, Illinois Institute of Technology) • Architecture (Dr. Larry Bell, NASA-JSC) • Life Support (Farolyn Powell, Life Systems, Inc.) • Surface Operations (Dr. John Alred, NASA-JSC) • Lunar Resources (Mark Jacobs, Astronautics Corp.)

U.S. Space Station [half-day, Sun. aft.] — Technical Choices in Designing the Station, Thomas L. Moser (NASA Space Station Program Director), Dr. Franklin D. Martin (NASA Associate Administrator) • Making the U.S. and Soviet Space Stations Compatible (Gordon Woodcock)

SPECIAL SYMPOSIA

Law & Space (Fri.) — *Organized by Hon. Edward R. Finch, Jr.*, Chairman, Aerospace Law Division, American Bar Association — Space Debris: Legal Aspects • The Law of Space (Treaties and Statutes) • Conflicts of Law: The Law IN Space (e.g.: Taxation, Imports-Exports, Crimes, Torts, Choice of law for contracts made in space, Licensing (e.g., of lawyers), Marriages, Citizenship, Real estate titles on the moon and asteroids, Malpractice, Patent rights) • Contracting and subcontracting with NASA • Legal rights to NASA research and development • Governing multi-national space habitats • The UN in Space

Teaching & Space (Sun./Mon.) — NASA and Teachers (Dr. Robert Brown, Director, NASA Office of Educational Affairs) • Tips in Teaching Space (Margaret Lindman, Chairman, Dept. of Curriculum & Instruction, Northeastern Illinois University) • "Come Fly With Me": Space Curricula (David & Doreen Housel) • Space Science for non-Science Students (Thomas Damon) • Museum of Science & Industry: Local NASA Resource Center • Teaching the History of Space Exploration (U.S. Space Camp) • Science Fiction as a Teaching Tool (Harry "Hal Clement" Stubbs) • Space as a "Hook" for Other Subjects (Georgia Franklin) • Mars for Students (Ralph Winrick, NASA) • "Air Bears": A Kindergarten Curriculum (the 99's) • "Horizons Unlimited" (Civil Air Patrol) • Teaching Astronomy (Adler Planetarium) • Teaching Space (U.S. Space Foundation, Challenger Center, Young Astronaut Program) • ALSO (Fri. eve.) — NASA Program to Certify Teachers to Handle Moon Rocks • Space M+A+X computer course

Exploration of Mars (Mon.) — *In cooperation with The Planetary Society* — Overview: A Mars Exploration Program • NASA's Exploration • Mars Rover Sample Return Scenarios • Mars Airplanes • Mars Balloons • Soviet Mars '94 Mission • Phobos—The Movie • Psychology/Sociology of Long Duration Space Flight • What Next for Advocates. *Including Louis Friedman* (Exec. Dir., Planetary Society), Thomas Paine, John Logsdon, Carl Pilcher (Chief Scientist, NASA Office of Exploration).

SCIENCE FICTION v. FACT — *Including Ben Bova, Hal Clement, Gordon R. Dickson, Roland Green, James P. Hogan, Frederik Pohl, and Stanley Schmidt*

ALSO — The Media View the Space Program (Joan Esposito, news-anchor, WLS-TV [ABC], Chicago, and NASA journalist-in-space semi-finalist) • Space Biosphere II • Space architect Michael Kallil • Government of India

BUSINESS & SPACE

Organized by Illinois Space Institute, KPMG Peat Marwick, and Aerospace Research Applications Corp. Hon. Chmn: James A. Lovell, Jr. (Exec. V.P., Centel Corp. / former astronaut), "The Future of Free Enterprise in Space" (I) **Space and the Non-Space Business** [Fri.] — Locating & Using NASA Technology (Often Without Cost) • Space-Related Growth Industries • Amroc: Getting Into the Space Business • Space Spin-offs • Using NASA Research & Development Contracts to Develop Commercial Products • Contracting/Subcontracting With NASA (Getting and Keeping a Piece of the Pie) • Financing • (II) **Space Commercialization** [Sun.] — The Private Launch Industry • How Your Business Can Use Space: An Overview • Photos From Orbit for Business & Farming) • Small Satellites • 3M's Space Research Program • Geostar & SSI: A Case Study • Government Aid to High Tech: An Illinois Example — [*Also including: George Koopman (Amroc), Jeffrey Manber* (Exec. Dir., The Space Foundation), SPOT Image Corp., American Microsat, Globesat, Omnisat, John Straus (Director, Governor's Comm. on Science & Technology), NASA]

INTRODUCTION TO SPACEFLIGHT

All-day professional seminar [Fri.] on essentials of space navigation, by Gregg Maryniak, Exec. V.P. of Space Studies Institute, and pilot Edward Daley; learn to solve NASA's rendezvous workbook problems [Add'l fee \$195]

You, Too, Can Speak!

The "Many Roads to Space" track will give you and other registrants a forum for your own special and diverse ideas or experiences as to space policy, science, education or technology.

TOURS — Introduction to Chicago (Thurs. aft.) • Fermilab Nat'l Accelerator Lab (Fermilab) (Fri. morn.) • Chicago's Outdoor Art & Art Institute (Fri. aft.) • Argonne Nat'l Lab (Sat. morn.) • A Day in Chicago: Museums to Michigan Avenue (all-day Sat.) • Crown Space Center at Museum of Science & Industry / Omnimax movie (Sun. aft.)

MOEBIUS THEATRE presents humor of the Space Age!