

Jason J. Hyon
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QUALIFICATIONS

Strategic Planning and R&D Management

Managed internal R&D investment programs.
Develop NASA and JPL technology implementation plans

Current NASA Missions

Managed developments of various ground data systems for NASA Earth science missions. These missions include MISR on Terra, ASTER, AIRS on Aqua, TES on Aura, Topex/Poseidon, and SeaWinds on ADEOS. We also manage the NASA Physical Oceanography Distributed Active Archive Center (PO.DAAC).
A member of the NRC panel on "Enabling Ocean Research in the 21st Century"

Internet/Intranet Based Multimedia Database System

Task Manager for The Data Archival and Retrieval Enhancement project for Defense Threat Reduction Agency (a.k.a. Defense Nuclear Agency)
Develop the first Perl based HTML web services in 1992

Data Distribution and Archival Mass Storage System Design

Task Manager for NASA Regional Planetary Imaging Facility
Principal Investigator for NASA Data Distribution Laboratory
Expert in system hardware architecture and software for PC, Macintosh, SUN, and VAX
Papers published in IEEE, BYTE magazine, SPIE, and CD-ROM professional

Volume and File Structure Standard

A head of U.S. delegates to ISO (International Standard Organization) SC 15 WC 1 committee
A member of ECMA (European Computer Manufacturer's Association) TC 15 committee

EXPERIENCES

Chief Technologist For Earth Science at JPL, October, 2003 – Present

Develop technology management plans to oversee technology developments at JPL for Earth Science applications. Lead Technology Advisory Counsel (TAC). Serve as a member of the JPL Science and Technology Management Council to ensure an integrated and strategic Lab-wide vision. Will report to the Director For the Earth Science and Technology Directorate and the Laboratory Chief Technologist.

Deputy Section Manager at JPL, 2000 – 2003

Assist the section manager in managing the Earth Science Data Systems section and developing programs for the section.

EDUCATION

MSEE at University of Southern California, August of 1988

BA in Mathematics and Physics at Occidental College, June of 1986

EE at California Institute of Technology, 1986

PUBLISHED PAPERS

1. Daniel Crichton, Steven Hughes, Jason Hyon, Sean Kelly, "Science Search and Retrieval using XML", 2nd Annual Conference on Data for Science and Society, NSF, March, 2000
2. Jason Hyon, "Knowledge Management Tool: DARE System", The 70th Shock and Vibration Symposium, November 15-19, 1999
3. Hughes, J.S., Crichton, D.J., Hyon, J.J., Kelly, S.C., A Multi-Discipline Metadata Registry for Science Interoperability, Open Forum on Metadata Registries, ISO/IEC JTC1/SC32, Data Management and Interchange, January 2000, <http://www.sdct.itl.nist.gov/~ftp/l8/sc32wg2/2000/events/openforum/index.htm>
4. Jason Hyon, Mike Martin, "Evaluation of DVD-R for Archival Application", Joint International Symposium on Optical Memory and Optical Data Storage, ISOM/ODS'99, July, 1999
5. Jason Hyon, Rosana Borgen, "Data Archival and Retrieval Enhancement (DARE) Metadata Modeling and Representation", IEEE, Metadata conference, 1996
6. Mike Martin, Jason Hyon, "Evaluation of DVD-R for Archival Application", IEEE/SPIE, ODS'99, 1999, 86-88
7. Jason Hyon, Sugi Sorensen, Mike Martin, Kristy Kawasaki, Mark Takacs, "A WWW – based Archive and Retrieval System for Multimedia Production", IEEE/SPIE, 1996
8. Jason Hyon, Mike Martin, "Results of CD-R Media Study", IEEE/SPIE, ODS'95, 1995, 55-61 – also, quoted on the IEEE Spectrum news paper
9. Jason Hyon, "A Standard for Writing Recordable CDs", BYTE, January, 1994
10. Jason Hyon, Mike Martin, "CD It for Yourself", BYTE, June, 1996
11. As a member of ISO (International Standard Organization) SC 15, "ISO 13346 – Volume and File Structure Standard for Non-sequential media", ISO, 1995
12. As a member of ISO SC 15, "ISO 13490 – Volume and File Structure Standard for CD-R", ISO, 1995.
13. As a member of ECMA (European Computer Manufacturer's Association) TC 15, "ECMA 246", ECMA, 1992
14. As a member of ECMA TC 15, "ECMA 247", ECMA, 1993
15. Published over 200 NASA CD-ROMs for flight projects – Voyager, Magellan, etc.
16. As a member of NRC panel for OOI, "Enabling Ocean Research in the 21st Century", September, 2003
17. Conference session chairs at AIAA in San Diego, September 04, and IGARSS in Anchorage, September 04
18. Runner up for NASA software of the year for OODT