

Jun Okushi, Master of Architecture, American Institute of Aeronautics and Astronautics Lifetime Member  
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## OVERVIEW

Jun Okushi is the third generation of an Architects family and a National Aeronautics and Space Administration (NASA) trained Space Architect who resides in Mito, Japan.  
Mr. Okushi has enjoyed a three-decades-long career working with significant cutting-edge institutions, organizations and individuals around the world in the field of space developments and explorations, as well as traditional architectural design practice with his father; Sir Hiroshi Okushi (1921-2012: The Decoration of Sacred Treasure of Japan). Mr. Okushi served as a NASA Research Grant Student at the Southern California Institute of Architecture (SCI-ARC), under the directions of Dr. Yvonne Clearwater and Dr. Marc M Cohen, from NASA-Ames Research Center, Space Human Factors Office and Professor David Anthony Nixon, at SCI-ARC involving the early stage of design definition for the NASA International Space Station. The design research exploration skills for human space missions and habitability that he developed as a student at SCI-ARC enabled him to take a leading role in the establishment of the Space Architecture Research Consortium at the University of Tokyo, making that university a core member in the field. He continues to enrich his professionalism through a commissioned researcher experiences at the consortium. Mr. Okushi is the author of a number of published papers and articles within the discipline of design implications for extreme environments and human space exploration.

1957 March      Born in Mito, Ibaraki, Japan

## EDUCATION and TRAINING

1983 March      Bachelor of Science in Architectural Engineering  
Hachinohe Institute of Technology (HI-TECH), Aomori, JAPAN

1983 April-July      Post-graduate Research Fellow at the Regional Planning Laboratory, directed by Dr. Yoshihiko Sasaki The Department of Architectural Engineering, HI-TECH, Hachinohe, Aomori, JAPAN

1983 December      Certificates: Advanced Academic Preparation at The English Program for Foreign Students, University of Pennsylvania, Philadelphia, PA. U.S.A.

1984 August      The Japan Institute of Architect: Summertime Internship Open Desk Fellow at Mikami Architectural Office, Mito, Japan  
Awarded By The Institute of Japanese Architects, Tokyo, JAPAN

1984-1986      NASA Research Grant Student at Institute For Future Studies/Space Projects Group Southern California Institute of Architecture , Santa Monica, CA. U.S.A.: Grant Awarded by NASA Contract NCC2-356:

1985 December      Master of Architecture , Southern California Institute of Architecture , Santa Monica, CA. U.S.A.

1986 March      Internship: Architectural Design Assistant at Mikami Architectural Office, Mito, Japan

2006      Ph.D. Candidate: University of Tokyo,

ACTIVITIES, PRACTICE and PROJECTS

1987-1989	NASA Grant Space Habitat Design Research/Draftsman, Khalil Studio, New York, NY U.S.A.
1989-1990	Okushi Architects, Architectural Engineering Consultant for Electromagnetic Anechoic Chamber Designs for the EMC (ElectroMagnetic Compatibility) Department AKZO JAPAN LTD.Tokyo, JAPAN
1989-1992	Space Architectural Design Research SPACE PROJECTS GROUP (Phase II), Research Partnership with Regis Fauquet, Los Angeles, U.S.A.- Mito, JAPAN
1989-2012	Private Practice, SpaceProjectsGroup/Okushi Architects Mito, JAPAN
1998 March	Mandatory Attending Lecturer at the Interdisciplinary Engineering Program "Humans to Mars, By the year of 2012" directed by Professor Larry H. Kuznetz, University of California, Berkeley U.S.A.Invited by the Advanced Space Projects Branch NASA ARC, Dr. Marc M Cohen
1999	The Mars Society -Japanese Chapter Original Representative/ Funding Coordinator of the Mars Society of Japan, Tokyo, JAPAN
2001-Present	American Institute of Aeronautics and Astronautics Technical Committee
2002-2007	University of Tokyo , Space Architecture Research Consortium at the Matsumura Laboratory,/ Adjacent Researcher Graduate School of Engineering, University of Tokyo, Tokyo, JAPAN
2012-Present	SUPR-SYSTEMS Founding Director

TECHNICAL PAPER PRESENTATIONS and PUBLICATIONS

1986	"Space Station Habitability Module Interior Design Concept" David Nixon, Space Station Group Activities Habitability Module Study NASA Contractor Report 4010 1986
1990	"Architectural Implications and Requirements Relating to the Question of Human Body Motion in Microgravity." Regis Fauquet and Jun Okushi/Space Projects Group European Space Agency (ESA) ESAW/pp-015,1990 Noordwijk Netherlands.
1990	"Tasks of Architectural Design in Spacecraft" 34th Annual National Conference on Space Science and Technology 1990 Tokyo, Japan

- 1991 "Architectural Ideas Relating to the Question of Human Body Motion in Microgravity"  
Regis Fauquet and Jun Okushi/Space Projects Group  
21st International Conference on Environmental Systems,  
SAE TECHNICAL PAPER SERIES 911498
- 1991 "Architectural Studies Relating to the Nature of Human Body Motion in Microgravity"  
Regis Fauquet and Jun Okushi  
Proceedings: International Pacific Air & Space Technology Conference  
and 29th Aircraft Symposium,1991,Gifu, Japan SAE P246,912076
- 1991 "Architectural Studies Relating to Human Motion Morphology and Interface in  
Microgravity"  
Regis Fauquet and Jun Okushi  
4th European Symposium on Space Environmental Control Systems  
EUROPEAN SPACE AGENCY, Florence, Italy
- 1991 "Architectural Ideas Relating to the Question of Human Mobility in Microgravity "  
Fauquet, R., Okushi, J., SPACE PROJECTS GROUP  
Proceedings: The First International Design for Extreme Environments Assembly  
Houston, Texas, U.S.A.
- 1996 "First Mars Outpost Architectural Study"  
Okushi, J. SpaceProjectsGroup-Okushi Architects  
Space 96. Albuquerque, NM U.S.A.
- 1996 "First Mars Outpost Architectural Study I"  
Okushi, J. SpaceProjectsGroup-Okushi Architects  
26th International Conference on Environmental Systems  
Monterey, California 1996, SAE TECHNICAL PAPER SERIES 96144
- 1998 "First Mars Outpost Habitat Design Study (NO PAPER)"  
The 3rd International Conference on Life Support Systems and Biosphere Science  
Orlando, Florida, U.S.A.
- 2003 "Design Implications of Latent Challenges to the Long-Duration Space Mission"  
Marilyn Dudley-Rowley; OPS-Alaska & Sonoma State University,California CA U.S.A,  
Jun Okushi, OPS-Alaska Japanese Operations/Space Projects Group/Okushi Architects,  
Mito Japan,  
Thomas Gangale OPS-Alaska & San Francisco State University CA U.S.A.  
Pablo Flores, Moscow Aviation Technical Institute,Russia  
Eduardo Diaz, Sonoma State University CA U.S.A.  
AIAA Space 2003 Conference, Long Beach CA U.S.A.
- 2005 "Architectural Design For Life in Space"  
Jun Okushi, Space Projects Group/Okushi Architects, Mito Japan  
The 56th International Aeronautical Congress, Fukuoka, Japan
- 2005 "Innovative Facilities Concepts for Space Station"(宇宙ステーションの道具たち)  
Jun Okushi, University of Tokyo , Space Architecture Research Consortium  
Forum 'Dougology' Study on Tools No.10, Tokyo Japan

- 2006 “20 Years On- The SCI-ARC/NASA-AMES Habitability Module Project”  
David A Nixon, Altus Associates, Architects, Los Angeles, CA U.S.A.  
Jun Okushi, Space Projects Group/Okushi Architects, Mito, Japan  
AIAA Space 2006, San Jose, CA U.S.A.
- 2007 “The Human Factors of Deep Space Mission: From Human Factors to Mission Design”  
(宇宙極地探査のヒューマン・ファクター)  
Jun Okushi, University of Tokyo , Space Architecture Research Consortium  
10+1 No.46,Tokyo Japan  
ISBN978-4-87275-140-6
- 2009 “Alternative Space-Station Module Interiors” Out of This World- The New Field of Space  
Architecture  
David Nixon and Jun Okushi (contributor) , A. Scott Howe and Brent Sherwood edited.  
American Institute of Aeronautics and Astronautics, Reston, VA U.S.A  
ISBN:978-1-56347-4344
- 2014 White Paper Contribution:”A Short Review of the Necessity of Human Spaceflight Our  
Advocacy of a Decade “ “PATHWAYS TO EXPLORATION: Rationales and Approaches A  
U.S. Program of Human Space Exploration”  
The National Academies Press, Washington,DC, U.S.A.  
ISBN 978-0-309-38736-1

## AWARDS

- 1988 Honorable Mention  
Design Competition Vietnam Veterans Memorial for The State of New Jersey, U.S.A.  
Collaborated with Matthew Fowler
- 1989 2nd Prize  
Ichouzaka Public Rest Room Design Competition  
Mito, Japan
- 1990 Winner of the International Open Bit  
for the 10-meter Electoro-Magnetic Anechoic Chamber Construction for  
The National Electronics Technology Research Institute,  
Tedjon, Korea.
- 1991 "Best Bio-Morphic Space Station Module Designer"  
NASA ARC Space Human Factor Research Award  
Presented by Dr. Yvonne Clearwater, Space Human Factors Office, NASA -ARC  
Moffett Field CA U.S.A.
- 1993 Annual SD Review Award, "Akikawa Farmers Market"  
Collaborated with Keikaku Kankyo Kennchiku Architectural Office  
Tokyo, Japan

COLLECTIONS

1. The works at Khalil Studio has been collected in the section of Art and Architecture, by The Museum of Modern Art, New York, Manhattan USA
2. The technical paper; "First Mars Outpost Architectural Study I" 1996 has been collected by The National Diet Librally of Japan