

CURRICULUM VITA

W. Linwood Jones

University of Central Florida
School of Electrical Engineering and Computer Science
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EDUCATIONAL QUALIFICATIONS

1971 Ph.D., Electrical Engineering, VA Polytechnic Institute & State Univ., Blacksburg, VA
1965 M.EE., Electrical Engineering, University of Virginia, Charlottesville, VA
1962 B.Sc., Electrical Engineering, VA Polytechnic Institute, Blacksburg, VA

WORK EXPERIENCE

Aug 1997 – Present:

Professor, Electrical and Computer Engineering Department, University of Central Florida, Orlando, Florida

Aug 1996 – Aug 1997:

Visiting Professor, Electrical and Computer Engineering Department, University of Central Florida, Orlando, Florida

May 1994 – Aug 1996:

Associate Professor, Electrical and Computer Engineering Department, Florida Institute of Technology, Melbourne, Florida

Nov 1992 - May 1994:

Project Manager, Space Shuttle Program Office, NASA Kennedy Space Center, Florida

Sept 1988 - Nov 1992:

Satellite Program Manager, NASA Headquarters, Office of Earth Science and Applications, Washington DC

Aug 1984 - Sept 1988:

Senior Principal Engineer, Harris Corporation, Aerospace Systems Division, Melbourne, FL

Feb 1983 - Aug 1984:

RF Systems Project Manager, Satellite Television Corporation, Princeton, NJ

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Aug 1981 - Feb 1983:

Project Manager – Communications Systems, General Electric Company, Space Division, King of Prussia, PA

June 1974 - Aug 1981:

Leader, Radar Remote Sensing Group, NASA Langley Research Center, Flight Electronics Division, Hampton, VA

Sept 1969 - June 1974:

Head, Microwave Techniques Research Section, NASA Langley Research Center, Hampton, VA

June 1962 - Sept 1969:

Electronics Engineer, Telemeter Techniques Research Section, NASA Langley Research Center, Hampton, VA

June 1958 – June 1962:

Cooperative Engineering Student, Norfolk Naval Ship Yard, Portsmouth, VA

PROFESSIONAL AFFILIATIONS

Fellow/Life Member: Institute of Electrical and Electronics Engineers (IEEE)

GeoScience and Remote Sensing Society

Antennas and Propagation Society

Ocean Engineering Society

American Geophysical Union

Union of Radio Scientists International (URSI), Commission-F

TEACHING EXPERIENCE

University of Central Florida, ECE Department

1996-Present :

1. EEL 6590 Adv Satellite Communications
2. EEL 6489 Advanced Radar
3. EEL 6492 Advanced Microwave Remote Sensing
4. EEL 5547 Introduction to Radar Systems
5. EEL 5432 Satellite Remote Sensing
6. EEL 5937: Introduction to Wireless Communications
7. EEL 4518 Satellite Communications
8. EEL 4515 Digital Communications
9. EEL 3552 Signal Analysis and Communications
10. EEL 3122 Electrical Networks

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Florida Institute of Technology, ECE Department

1994 – 1996:

1. Electrical Circuit Theory-I (junior undergraduate level).
2. Electrical Circuit Theory-I (junior undergraduate level).
3. Satellite Remote Sensing (graduate level).
4. Satellite Communications (graduate level).

Adjunct Associate Professor Teaching

1988 Florida Institute of Technology

Microwave Remote Sensing (graduate)

1980 Old Dominion University

Microwave Systems (graduate)

1972-79 Thomas Nelson Community College

Microwave Measurements Theory and Lab (sophomore undergraduate)

1969-71 George Washington University – NASA Langley Campus

Communications Theory (graduate)

Microwave Remote Sensing (continuing education - 3-day short course)

1967- 68 VA Polytechnic Institute & State University, Grad TA:

Electrical Circuit Theory

Electronics Lab

Microwave Lab

UCF Senior Design Projects

Faculty advisor/sponsor for the following senior design projects:

2008 PegSat Comm & Power Subsystem

2007 PegSat Nano Satellite

2006 Doppler Radar Simulator

2003 Satellite Digital Communications

2002 Turkey Tracker

2002 Gun-Shot Tracker

2001 Satellite Earth Station Demo

1998 Dual Channel Satellite Transponder

GRADUATE STUDENTS

Twenty-one Masters and eight Ph.D students have completed their theses and dissertation requirements under my guidance as their principal advisor. Presently I am the principal advisor for six Ph.D. dissertations in progress.

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MASTER'S THESIS SUPERVISED

1. Normalization of NEXRAD Antenna Gain for Overlapping Radars, S. Boustany, Summer 1999
2. An Algorithm for Measuring Rain over Oceans using the QuikSCAT Radiometer, Maladen Susanj, Summer 2000
3. Ocean Brightness Temperature Measurements using the QuikSCAT Radiometer, Rushad Mehershahi, Fall 2000
4. Evaluation of Radar Derived Surface rainfall Estimates for Improvement of TRMM Ground Validation Products, Biswadev Roy, Fall 2000
5. Spatial Variability of Surface Rainfall and its Impact on Radar Retrieval, Saswati Datta, Spring 2001
6. Analysis of Angle Modulated Signals through a Breadboard Satellite Transponder, Seubson Soisuvan, Summer 2001
7. A Statistical Algorithm for Inferring Rain Rate from the QuikSCAT Radiometer, Yanxia Wang, Fall 2001
8. An Algorithm for Identifying Rain Contaminated Ocean Wind Vector Cells in a Hurricane Environment using the SeaWinds Scatterometer on QuikSCAT, Vinod Devan, Fall 2001
9. Evaluation of a Microwave Radiative Transfer Model using Satellite Radiometer Observations, Yan Sun Summer 2003
10. Raindrop Size Distribution Retrieval and Evaluation using an S-band Radar Profiler, Fang Fang, Summer 2004
11. Analysis of Time Synchronization Errors in High Data Rate UWB-OFDM Data Links, Lakesha D. Bates, Fall 2004
12. Evaluation of a Microwave Radiative Transfer Model for Calculating Satellite Brightness Temperature, Simonetta D. Thompson, Fall 2004
13. SeaWinds Radiometer Brightness temperature Calibration and Validation, Matank Rastogi, Summer 2005
14. Analysis of Airborne Microwave Polarimetric Radiometer Measurements in the Presence of Dynamic Platform Attitude Errors, Jean Yves Kabore, Spring 2006
15. Evaluation of the Amazon Rain Forest as a Distributed Blackbody Target for On-Orbit Radiometric Calibration, Nishant Patel, Spring 2006
16. Analysis of Airborne Microwave Polarimetric Radiometer Measurements in the Presence of Dynamic Platform Attitude errors; Kabore, Jean Yves; Spring 2006
17. Hurricane Wind Speed and Rain Rate Retrieval Algorithm for the Stepped Frequency Microwave Radiometer; Amarin, Ruba; Summer 2006
18. An Improved Microwave Radiative Transfer Model for Ocean Emissivity at Hurricane Force Wind Speed; El-Nimri, Salem; Summer 2006
19. Hurricane Winds Retrieval Algorithm Developed for an Airborne Conical Scanning Scatterometer; Vasudevan, Santhosh; Fall 2006
20. Evaluation of the Amazon Rain Forest as a Distributed Target for Satellite Microwave radiometer Calibration; Patel, Nishant Spring 2007

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Ph.D. DISSERTATIONS SUPERVISED

1. A Neural Network Scatterometer Model Function for Satellite Scatterometers, S. Alhumaidi, Fall 1997
2. NASA scatterometer beam balance using homogeneous land targets, Josko Zec, Fall 1998
3. Improved Scatterometer Algorithm for Measuring Winds in Tropical Cyclones, Larry Rice, Spring 1999
4. An Ocean Surface Wind Vector Model Function for a Spaceborne Microwave Radiometer and its Application, Seubson Soisuvann Fall 2006
5. Simulation and Study of the Stokes Vector in Precipitating Atmosphere, Ian Adams, Spring 2007
6. Estimation of Oceanic Rainfall Using Passive and Active Measurements from Sea Winds Spaceborne Microwave Sensor, Khalil Ahmad, Fall 2007
7. Inter-Satellite Microwave Radiometer Calibration, Liang Hong, Spring 2008
8. A Time-Varying Radiometric Bias Correction for the TRMM Microwave Imager. Kaushik Gopalan, Fall 2008

TEACHING AWARDS:

- IEEE Orlando Section: Outstanding Engineering Educator Award 2003
- College of Engineering: Excellence in Undergraduate Teaching Award 2004
- IEEE Florida Council: Outstanding Engineering Educator Award 2004

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RESEARCH & CREATIVE

Areas of Interest: Satellite Microwave Remote Sensing and Wireless Communications

FUNDED RESEARCH PROJECTS

1 (PI) Collaborative R&D Initiative for the Gulf of Mexico – Development of Hurricane Forecasting Flight Instrument HIRAD

Date: Oct, 2008 - Mar, 2009

Amount: \$110,000

Agency: Von Braun Cenetr for Science & Innovation

Description: *UCF proposes four tasks to be conducted by CFRSL, in collaboration with the University of Michigan and the Marshall Space Flight Center, who has the fundamental responsibility for the array antenna fabrication and test and the development of the HIRAD flight instrument.*

2 (PI) Central Florida Remote Sensing Laboratory (CFRSL) Adv Scat Study

Date: Sept, 2008 - Mar, 2009

Amount: \$48,526

Agency: NASA Jet Propulsion Laboratory

Description: *The Central Florida Remote Sensing Lab (CFRSL) at the University of Central Florida will assist the Jet Propulsion Laboratory in an ocean vector winds (OVW) measurement definition study for potential future scatterometer missions that will also include passive radiometer systems.*

3 (PI) A Hurricane Flight Experiment for Development of the HIRAD Wind Speed Model

Date: Mar, 2007 - Mar, 2008

Amount: \$25,000

Agency: NASA FL Space Grant Consortium

Description: This project is to conduct microwave remote sensing experiments on the NOAA Hurricane Research Division P-3 aircraft during the 2007 hurricane season. The objective will be to gather radiometric observations for extending the CFRSL wind speed retrieval algorithm to large incidence angles for wide swath measurements.

4 (CoI) Radiometric Consistency for MultiSatellite Constellations

Date: Dec. 2006 - Mar, 2010

Amount: \$206,624

Agency: NASA Headquarters

Description: This project is to develop microwave radiometer inter-calibration techniques for normalization of the microwave brightness temperature measurements from various microwave radiometers in the Global Precipitation Measurement Mission constellation.

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5 (PI) Airborne Hurricane Imaging Radiometer

Date: June, 2006 - Aug, 2008

Amount: \$367,962

Agency: Univ. of AL Huntsville (NASA Marshall Space Flight Center)

Description: This project is a phase-I development of an airborne microwave Hurricane Imaging Radiometer. Phase-I involves an antenna array design and testing and an engring model 2-channel stepped frequency receiver and digital correlator development, and geophysical algorithm developments.

6 (PI) An Airborne Hurricane Imaging Microwave Radiometer

Date: Mar, 2006 - Mar 2007

Amount: \$24,923.00

Agency: NASA FL Space Grant Consortium

Description: This project is to develop a new microwave imaging radiometer to measure surface wind speed and rain rate in a hurricane for future satellite remote sensing opportunities.

7 (PI) Improved Ocean Vector Retrievals in Extreme Wind Events

Date: Aug , 2006 - Mar, 2010

Amount: \$388,693

Agency: NASA Jet Propulsion Lab

Description: To improve ocean vector wind remote sensing of extreme wind events (>20m/s) using observations from QuikSCAT and WindSat..

8 (PI) Advanced Ocean Vector Winds Measurement Study Phase-II

Date: Oct, 2005 - Dec, 2008

Amount: \$80,000.00

Agency: Raytheon Company St. Petersburg

Description: Phase-II, the purpose of which is to provide a state of the art computer simulation capability for microwave active (radar) and passive (radiometer) instrument design and performance assessment.

9 (PI) Advanced Scatterometer Simulation for Satellite Remote Sensing

Date: Aug 4, 2004 - Jan 2006

Amount: \$30,000.00

Agency: Raytheon Company St. Petersburg

Description: A project, the purpose of which is to provide a state of the art computer simulation capability from microwave (radar) scatterometer design and performance assessment.

10 (PI) Advanced Scatterometer Simulation for Satellite Remote Sensing

Date: Mar 1, 2004 – June 2005

Amount: \$20,000.00

Agency: UCF I4 Internal Match

Description: A project, the purpose of which is to provide a state-of-the-art computer simulation capability for microwave (radar) scatterometer design and performance assessment.

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11 (PI) Inter-Satellite Microwave Radiometric Calibration Study

Date: Aug 1, 2003 – May 2006

Amount: \$100,084.00 of \$325,680 total

Agency: US Naval Research Laboratory Wash DC

Description: A project, the purpose of which is to investigate techniques for cross-calibrating cooperative satellite microwave radiometers and provide absolute brightness temperature calibration.

12 (PI) QuickSCAT Precipitation Mission - A GPM Pathfinder

Date: Dec 11, 2002 – Sept. 2006

Amount: \$210,000 of \$315,000 total

Agency: NASA Goddard Space Flight Center

Description: A project, the purpose of which is to Provide precipitation measurements from QuickSCAT as a pathfinder for the proposed next generation Global Precipitation Mission - GPM.

13 (PI) C-Star Polarimetric Microwave Radiometer Data Analysis

Date: Oct 28, 2002 – July 2005

Amount: \$27,665

Agency: University of Alabama (NASA Marshall Space Flight Center)

Description: A project, the purpose of which is to develop engineering and geophysical (Wind Vector) algorithms for the airborne C-Star polarimetric microwave radiometer.

14 (PI) SeaWinds on ADEOS-II

Date: Nov 27, 2001 – Dec. 2005

Amount: \$288,663

Agency: Oregon State University (NASA Jet Propulsion Lab)

Description: A project, the purpose of which is to participate in the pre and post launch for the SeaWinds ADEOS-II Program.

15 (PI) Tropical Rainfall Measurement Mission (TRMM) Science

Date: Oct 1, 1999 – May 2004

Amount: \$382,981

Agency: NASA Goddard Space Flight Center

Description: A project, the purpose of which is to perform TRMM related investigations in two major areas: (1) Validation of TRMM products and improvement of physical understanding resulting from analysis of data obtained during the TEFLUN-B field Campaign and ; (2) Rain retrieval algorithm development and validation for measurements in tropical cyclones.

16 (CoPI) Cirrus Regional Study of Tropical Anvils and Cirrus Layers - Florida Area Cirrus Experiment (CRYSTAL-FACE)

Date: May 8, 2002 – May 2003

Amount: \$16,134

Agency: NASA Goddard Space Flight Center

Description: A project, the purpose of which is to investigate tropical cirrus cloud physical properties and formation processes.

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17 (CoPI) SBIR Phase I: FloWatch911

Date: Jan 15, 2002 – Jan. 2004

Amount: \$43,357

Agency: Emergency Management Telecommunications Inc.

Description: A project, the purpose of which is to develop pipeline radar sensor for the Flowatch product.

18 (PI) Worldwide Foliage Map and Propagation Attenuation Model

Date: Jul 2, 2001 – Dec. 2001

Amount: \$30,000

Agency: Raytheon Company St. Petersburg

Description: A project, the purpose of which is to develop a realistic empirical global model (map) of the earth's forest regions and urban areas, which Raytheon will integrate into a RF link simulation.

19 (PI) QuickSCAT Calibration and Validation

Date: Mar 24, 2000 – March 2002

Amount: \$112,494

Agency: NASA Jet Propulsion Laboratory

Description: A project the purpose of which is to provide calibration and validation for the QuickSCAT Satellite Instrument and to develop and evaluate a new passive microwave (ocean brightness temperature) measurement capability for SeaWinds called QuickSCAT Radiometer, QRad.

20 (PI) Combined Active and Passive Remote Sensing of Rain Over Ocean and Terrain Geophysical Parameters

Date: Sep 21, 1999 – April 2004

Amount: \$62,398

Agency: NASA Jet Propulsion Laboratory

Description: A project, the purpose of which is to develop data analysis algorithms for the QUICKSCAT Sattelite Scattrometer.

21 (PI) NEXRAD Rain Products

Date: Jun 17, 1999 – Jan. 2001

Amount: \$14,983

Agency: State of Florida: St. Johns River Water Management District

Description: A project, the purpose of which is to provide rain-fall estimates for the St. John's River Water Management district by the Central FL Remote Sensing Lab.

22 (PI) QuickSCAT

Date: Oct 2, 1998 – May 2000

Amount: \$70,117

Agency: NASA Jet Propulsion Laboratory

Description: A project, the purpose of which is to use the QuickSCAT data for passes over tropical cyclones to obtain more accurate descriptions of the winds in the boundary layer above the ocean.

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23 (PI) TEFLUN-B Experiment/TRMM (Tropical Rainfall Measuring Mission) Field Experiment

Date: Jun 30, 1998 – Feb. 2001

Amount: \$170,499

Agency: NASA Goddard Space Flight Center

Description: Provide rain measuring instrumentation in Central Florida for ground truth for validating satellite rain measurements.

24 (PI) Satellite Remote Sensing of Soil Moisture

Date: Jan 31, 1998 – Aug. 1999

Amount: \$43,064.00

Agency: University of Florida-FSGC

Description: A project, the purpose of which is to investigate the feasibility of offering a commercial satellite remote sensing derived soil moisture product for sale to government and private sector users.

25 (PI) Conical Microwave Imager Sounder (CMIS)

Date: Oct 31, 1997 – Sept. 1998

Amount: \$16,544

Agency: Raytheon Company St. Petersburg

Description: A project, the purpose of which is for the University of Central Florida to provide performance analyses of RESP defined spaceborne active sensor configurations for measuring ocean wind vectors.

26 (PI) NSCAT Data Processing

Date: Jun 30, 1997 – Sept. 1998

Amount: \$10,000

Agency: University of South Florida

Description: A project, the purpose of which is to provide NSCAT ocean surface winds for the Cariaco Basin. Also, collaborate on the analysis of experimental results and journal publications.

27 (PI) Tropical Rainfall Measuring Mission (TRMM)...

Date: Jun 30, 1997 – Feb. 2001

Amount: \$210,029

Agency: NASA Goddard Space Flight Center

Description: A project, the purpose of which is to investigate optimal techniques for spatial and temporal combining of rain gauge and NEXRAD data in the Central and South Florida region to derive the "best estimate" of rainfall accumulation over approximately 5 deg. x 5 deg. horizontal spatial scale consistent with TRMM specifications.

28 (PI) E-Systems Remote Sensor Simulation

Date: May 27, 1997 – Dec. 1997

Amount: \$9,996

Agency: E-Systems a Raytheon Company

Description: A project, the purpose of which is to develop a satellite radar sensor with a rotating conical scan.

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29 (PI) Objective Operational Utilization of Satellite Microwave Scatterometer Observations of Tropical Cyclones

Date: May 1, 1997 – Dec. 1999

Amount: \$134,859

Agency: NASA Stennis Space Center

Description: A project, the purpose of which is to do a diagnosis of tropical cyclone PBL wind field and intensity using combination of high resolution NSCAT retrievals and PBL model. Improvement of NSCAT tropical cyclone wind retrievals.

30 (PI) Tropical Rainfall Measuring Mission (TRMM)-...

Date: Jun 21, 1996 – Jan. 1998

Amount: \$90,000

Agency: NASA Jet Propulsion Lab

Description: A project, the objectives of which are to: (1) validate the "ground truth" for TRMM products, (2) develop computer models to use TRMM data to generate mesoscale geophysical products and (3) perform calibration and maintenance of the rain gauges for the NASA Kennedy Space Center (KSC) network.

31 (PI) NASA Scatterometer (NSCAT)

Date: Jun 21, 1996 – Dec. 1998

Amount: \$219,027

Agency: NASA Jet Propulsion Lab

Description: A project, the purpose of which is to provide a confidence level on the NSCAT rain flags and to assess the retrieved winds' errors when precipitation is present in the NSCAT instantaneous field of view.

32 (CoI) HF Doppler Wind Profiler

Date: July 1996 – May 1997

Amount: \$ 25,000

Agency: NASA Kennedy Space Center

Description: Design of Next Generation of HF Doppler Wind Profiler

PENDING AND DECLINED PROPOSALS

1. (PI) Improved Real-Time Hurricane Ocean Vector Winds from QuikSCAT

Date: TBD

Amount: \$92,420

Agency: NOAA

Description: *Under this JHT project, we propose to utilize the Ocean Surface Winds Team (OSWT) at the NESDIS Center for Satellite Applications and Research (STAR) office, who will provide a new QuikSCAT hurricane wind product for forecast guidance. We will process, in near real-time, all QuikSCAT hurricane passes routinely captured by NOAA/NESDIS/ORR in Suitland, MD using the improved Q-Winds algorithm.*

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RESEARCH RELATED AWARDS & HONORS

1. **Agency:** Naval Research Lab Wash DC
AWARD: 2004 Alan Berman Research Publications Award
2. **Agency:** NASA HEADQUARTERS
AWARD: Group Achievement Award for the CRYSTAL Phase Project August, 2003
3. **Agency:** NASA HEADQUARTERS
AWARD: 2002 Project Management Shared Experience Program Topex/Poseidon
4. **Agency:** NASA HEADQUARTERS
AWARD: Group Achievement Award for the QuikSCAT Flight Project May16, 2001
5. **Agency:** IEEE
AWARD: Fellow, for contributions to the development and application of active microwave remote sensing technology for satellite oceanography, 1999
6. **Agency:** NASA HEADQUARTERS
AWARD: Group Achievement Award for the NSCAT Science team, 1998
7. **Agency:** NASA HEADQUARTERS
AWARD: Group Achievement Award for the NSCAT Flight Project, 1997
8. **Agency:** CNES French National Space Agency
AWARD: CNES Space Medal, En remerciement pour sa precieuse sa precieuse contribution au success de la mission franco-americaine d'oceanographie spatial – Topex-Poseidon, 1994
9. **Agency:** Aviation Week & Space Technology
AWARD: Space Program Award for Topex/Poseidon, 1993
10. **Agency:** NASA HEADQUARTERS
AWARD: Group Achievement Award for SeaSat-A Satellite Scatterometer Flight Project, 1981
11. **Agency:** NASA Langley Research Center
AWARD: Special Achievement Award, 1979
12. **Agency:** NASA HEADQUARTERS
AWARD: Group Achievement Award for the Water Quality Program, 1978
13. **Agency:** NASA Langley Research Center
AWARD: Sustained Superior Performance, SASS Program Scientist, 1978
14. **Agency:** Union of Radio Scientists International, URSI
AWARD: Election to Commission - F - 1972
15. **Agency:** NASA HEADQUARTERS
AWARD: Group Achievement Award for the RAM Flight Project, 1969
16. **Agency:** NASA Langley Research Center
AWARD: Sustained Superior Performance, Apollo LEM Program, 1966

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Honor Societies:

Eta Kappa Nu
Tau Beta Phi
Phi Kappa Phi
Omicron Delta Kappa
Kappa Theta Epsilon
Sigma Mu Sigma
American Society of Military Engineers

SERVICE

UCF Committee Services

I have been a member of the following Department and College level committees:

1. **1996-present:** Member of the Communications Committee.
2. **1996-present:** Member of the Electromagnetics Committee.
3. **1996-98:** Co-Chair Wireless Technology Committee
4. **1999-2006:** Member of the Graduate Affairs Committee.
5. **1999:** Member, Search Committee - Director Sponsored Research
6. **2001:** Member of the SEECs Grants Specialist Search Committee.
7. **2003- present** Member of the SEECs Promotion and Tenure Committee
8. **2007-present** Member Undergrad Committee

Professional Service

1. Member, NASA Hdqs Proposal Review Board 2008 Adv. Components Technology, Oct. 2008
2. Member, NASA Hdqs ROSES 2007 Airborne Instrument Technology Transition selection panel, Aug. 2007
3. Member, NASA Hdqs EOS 2006 Atmos. Dynamics & Precipitation science selection panel, Jan. 2007
4. Session chair, IEEE International GeoScience & Remote Sensing Society Conference (IGARSS 2006), July 2006
5. Participant, NOAA Satellite Vector Winds Reqmts Workshop June 2006
6. Member, NASA Hdqs NAMMA06 science selection panel, Mar. 2006
7. Member NASA LaRC Peer Review Panel for EM Research Branch, June 2005
8. Member, NASA's TCSP CAMEX science selection panel, Oct. 2004

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9. Member, Technical Program Committee and Session Chair, International GeoScience & Remote Sensing Society Conference (IGARSS 2004), 2003 – 2004
10. Member NASA Peer Review Panel for NASA Aqua Mission, August 2003
11. Member NASA Peer Review Panel for NASA Precipitation Measurements Mission, March 2003
12. Member, Technical Program Committee and Session Chair, International GeoScience & Remote Sensing Society Conference (IGARSS 2002), 2001 – 2002
13. Member of Red Team Review Board and Chairman – Instrument Sub-panel,, NASA Goddard Space Flight Center’s Earth Systems Science Pathfinder Mission – Step-2: Aquarius, 2001 - 2002
14. Member Proposal Review Panel, NASA Headquarters Earth Systems Science Incubator Instrument Program, 2001
15. Member, Technical Program Committee and Session Organizer & Chair: IEEE IGARSS 2000 Conference, 1999 – 2000
16. Treasurer, Member of Organizing Committee and Session Chair, 1999 IEEE Antennas & Propagation Society International Symposium and USNC/URSI National Radio Science Meeting, 1998 - 1999
17. Organizer and Meeting Chair, QuikSCAT International Cal/Val Workshop, 1999
18. Organizer and Meeting Chair, QuikSCAT International Science Team Meeting, 1998
19. Session Chair, IEEE SouthEastCon, 1998
20. Session Chair, URSI Radio Science Meeting, 1997
21. 1997-98 Steering Committee SouthEastCon ‘98, Orlando, FL
22. Organizer and Meeting Chair, NASA Scatterometer International Cal/Val Workshop, 1997
23. Session Chair, IEEE Oceans’96 conference, 1996

International Committees

1. Nov 2006: 6th GPM International Planning Workshop, GPM Team Member
2. 2003 – 2005: International Global Precipitation Mission Ground Validation Measurements Committee – Team Member
3. 2002 – 2007: WindSat International Science Team, - Principal Investigator & Team Member
4. 1997- 2009: QuikSCAT International Science Team, – Principal Investigator & Team Member
5. 1997 – 2009: TRMM International Science Team – Principal Investigator & Team Member
6. 1994 – 97: NSCAT International Cal/Val Team – Team Leader
7. 1994 – 97: NSCAT International Science Team – Co-Investigator, Team Member

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8. 1990 – 92: NASA/NASDA (Japan) TRMM Steering Group – CoChair
9. 1990 – 92: NASA/NASDA (Japan) ADEOS/NSCAT Program Management Group – CoChair
10. 1988 – 92: NASA/CNES (French) Topex/Poseidon Joint Steering Group – CoChair
11. 1975-78: Seasat-A Satellite Scatterometer Geophysical Validation Team, Joint United States, British, and Netherlands Science Team – Principal Investigator - Team Leader
12. 1980: Norwegian Sea Experiment, NORSEX, Joint Norwegian – United States Scientific Project – Team Member
13. 1973 – 75: Joint North Sea Wave Project, JONSWAP-73 & -75, Joint German FDR – United States Scientific Project – Team Member

CONSULTING ACTIVITIES

1. Member, NASA Hdqs Standing Review Board for the Aquarius Mission CDR, July. 2008
2. Member NASA GSFC Standing Review Board for the Global Precipitation Mission Microwave Imager (GMI) Prelim Design Review, Nov. 2006
3. Member, NASA Hdqs Standing Review Board for the Aquarius Non-Advocate Review, Sept. 2006
4. Member, NASA Hdqs Non-Advocate Review for the Space Technology-8 (ST-8) Mission, July 2006
5. Member, NASA Hdqs Non-Advocate Review for the Ocean Surface Topography Mission (OSTM) Prelim Design Review, Feb. 2006
6. Member, NASA GSFC Standing Review Board for the Global Precipitation Mission (GPM) System Reqmts Review, Dec. 2005
7. Member, NASA Hdqs Indep Review Team for the Ocean Surface Topography Mission (OSTM) Prelim Design Review, July 2005
8. Member NASA Independent review Panel for Global Precipitation Mission, 2002 - 2004
9. Member WindSat Core Cal/Val Team, Naval Research Laboratory, 2002 - 2006
10. Member, JPL Senior Review Board, Space-borne Scatterometer Projects, Jet Propulsion Laboratory, 1996 – 2004
11. Scientific Advisor & Satellite Remote Sensing Business Development Consultant, Raytheon - St. Petersburg (E-Systems), 1995 – 2001
12. Member, Science Advisory Board, WindSat Program, Naval Research Lab, 1999 – 2002
13. Member, Proposal Review Team, NASA Headquarters, Earth Systems Sciences Pathfinder Mission, 2000 & 2001
14. Member, Science & Technology Advisory Group, Custom Manufacturing Engineering Corp, St. Petersburg, FL, 2000 – 01
15. Calibration/Validation Team Leader, Jet Propulsion Laboratory, NASA QuikSCAT Project, 1997 – 99

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16. Calibration/Validation Team Leader, Jet Propulsion Laboratory, NASA Scatterometer Project, 1994 – 97
17. Science Advisor, Naval Ocean Remote Sensing Satellite Program, US Navy – SPAWARS & Naval Research Laboratory, 1994 – 98
18. Science Advisor, DMSP Block-VI and NROSS Satellite Programs, RCA Astro-Space Division, 1982 – 84
19. Technical Consultant, NASA Scatterometer Project, Jet Propulsion Laboratory, 1981 - 82

REFEREED JOURNAL PUBLICATIONS

1. Hong, Liang, **Jones, W. Linwood**, Wilheit, Thomas T. and Takis Kasparis, “ Two Approaches for Inter-satellite Radiometer Calibrations between TMI and WindSat, accepted by J. of Meteor Society of Japan (JMSJ) special issue on Precipitation Measurements from Space, 2009
2. Adams, I. S., P. Gaiser, and **W. L. Jones**, Simulation of the Stokes vector in inhomogeneous precipitation, *Radio Sci.*, 43, RS5006, doi: 10.1029/2007RS003744, 2008
3. Soisuvarn, Seubson, Zorana Jelenak and **W. Linwood Jones**, “An Ocean Surface Wind Vector Model Function for a Spaceborne Microwave Radiometer”, ”, *IEEE Trans. GeoSci. Rem. Sens*, vol. 45, no. 10, Oct 2007, pp. 3119-3130
4. **W. Linwood Jones**, Jun D. Park, Seubson Soisuvarn, Liang Hong, Peter Gaiser and Karen St. Germain, “Deep-Space Calibration of WindSat Radiometer”, *IEEE Trans. GeoSci. Rem. Sens.*, Vol. 44, N0. 3, Mar 2006, pp. 476-495
5. Ian S. Adams, Christopher C. Hennon, **W. Linwood Jones** and Khalil Ahmad, “Evaluation of Hurricane Ocean Vector Winds from WindSat”, *IEEE Trans. GeoSci. Rem. Sens.*, Vol. 44, N0. 3, Mar 2006, pp. 656-667
6. Khalil Ahmad, **W. Linwood Jones**, Takis Kasparis, Stephen Vergara, Ian Adams and Jun Park, “Oceanic Rain Rate Estimates from the QuikSCAT Radiometer: A Global Precipitation Mission Pathfinder”, *J. GeoPhy. Res – Atms*, VOL. 110, 2005
7. Diane Evans, Werner Alpers, Anny Cazenave, Charles Elachi, Tom Farr, David Glackin, Benjamin Holt, **Linwood Jones**, Tim Liu, Walt McCandless, Yves Menard, Richard Moore, Eni Njoku, “Seasat - A 25 Year Legacy of Success”, *Remote Sensing of Environment*, Vol. 94, Issue 3, Pages 287-428, 15 Feb 2005
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