

CAREER SUMMARY:

- Over 15 years of experience in leading a complex facility managing both NASA's Earth data center for the research community and satellite receiving station
- Successful record of developing a research enterprise within the university environment
- Skilled at finding creative solutions to complex problems with a proven record of taking corrective action to the benefit of the University
- Results-oriented, high-energy, problem-solving administrator with a successful record of leading large-scale science programs

PROFESSIONAL EXPERIENCE:

University of Alaska Fairbanks (UAF)

ASSOCIATE VICE CHANCELLOR FOR RESEARCH (AVCR)

2011-PRESENT

As the AVCR, I am the Director of the Office of Research Integrity (ORI) for UAF, while retaining my duties half time as the Alaska Satellite Facility (ASF) Director. ORI is responsible for ensuring research compliance with governmental and University requirements concerning academic integrity in research and publication, and ethical conduct of research. These responsibilities include formulation and distribution of policy in these compliance areas, outreach education to faculty and staff in colleges and departments, compliance reporting and review, and assessment and resolution of case-specific problems or complaints.

From 2011 to 2015, I was responsible for the administration of the Office of the VCR including budget management, human resource issues, and daily office management. During my tenure as AVCR, I moved the Office of Sponsored Programs into the Office of Grants and Contracts Administration in order to have the pre- and post- award administration become integrated as a step toward higher efficacy. The VCR's office remains responsible for assisting in the development of high-quality proposals that meet sponsor criteria; acting as a liaison between the University and sponsors concerning pre-award and post-award issues; and working with faculty and staff to solve pre-award problems before proposals are submitted to sponsors.

As the lead on several collaborative efforts from within the Office of the VCR, I am leading the UAF oil-spill related research efforts to bring together many disparate discipline experts at UAF with an eye toward building a Center of Arctic Sustainable Development. As a problem-solving measure, I was temporarily assigned to be the Program Administrator for the INBRE program. That grant is now in compliance with NIH regulations and received fully funding in its fifth and final year. The follow-on grant

has been successfully competed and has been moved into the Institute of Arctic Biology (IAB) under the Director as the new Principal Investigator.

ALASKA SATELLITE FACILITY (ASF) DIRECTOR

2002-PRESENT

As Director of ASF, I lead ASF's 55 highly-skilled technical staff with a total annual budget of approximately \$12 million across several contracts, primarily with the National Aeronautics and Space Administration (NASA). ASF's record has turned around in the 13 years under my lead from a struggling facility on the verge of shut down to a thriving concern rating excellent ratings from NASA and winning continuing contracts for both the data center and the ground station.

I have successfully developed new business opportunities and continue to keep ASF at the forefront of the satellite data industry by focusing on high-quality, on-time data delivery, exemplary customer service, and visionary new product development efforts. The ASF Enterprise was created in 2006 and has successfully made the transition from a data image seller to a UAF-owned ground station in response to changing market opportunities.

As the senior officer responsible for the University and the Geophysical Institute's (GI) largest project, I also play an important role in integrating ASF into UAF interfacing with the University management, as well as the GI Faculty, students, and staff. I am an active member of the GI Administration Team that advises the GI Director in strategic decisions and operational issues.

Developing and maintaining ASF's relationships with the U.S. and foreign government research agencies as well as a wide array of domestic and international partners requires me to use an unusual combination of scientific, management, and leadership skills.

ASF SCIENCE CENTER MANAGER

2000-2002

I led and managed ASF's Science Center with 28 personnel and an annual budget of \$2.5 million. I was responsible for product quality issues, user community interaction, user software tool development, advanced algorithm development, the RADARAST Geophysical Processor System project, and outreach activities. As the Science Center Manager, I implemented policies and procedures for the Science Center as well as forecasted research trends and directions for ASF user community. As a member of the ASF Management team, I became the principal spokesman for science operations at ASF to NASA, the user community, the University's faculty, staff and students, and the general public.

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RAMP MAPPING PROJECT MANAGER

1996-1997, 2000-2002

The RADARSAT-1 Antarctic Mapping Project (RAMP) was performed under the International Memorandum of Understanding (IMOU) between the U.S. and Canada for the RADARSAT-1 project. Under the Principal Investigator Ken Jezek from Byrd Polar Research Center, I developed and managed the scope, schedule, and resources for this NASA Pathfinder project working with U.S. and foreign government agencies as well as the science community for two separate mapping projects. The first mapping mission under this IMOU, Antarctic Mapping Mission (AMM), mapped the entirety of the Antarctic continent for the first time using synthetic aperture radar (SAR). The Modified Antarctic Mapping Mission (MAMM), the second mapping of the Antarctica, focused on obtaining ice velocities by creating unprecedented interferometric measurements of Antarctica.

Steve Myers & Associates Corporation, Fairbanks, Alaska

RGPS SCIENTIST

1998-2000

Brought the RADARSAT Geophysical Processor System (RGPS) project from the development phase to the production phase. Included managing installation, adherence to design requirements, acceptance testing, progress, and status. Oversight and supervision of ordering, distributing, and tracking data acquisitions and RGPS product generation. Represented the ASF RGPS team in working group meetings as well as scientific conferences.

EOSDIS CORE SYSTEM SCIENCE LIAISON

1995-1998

Interacted with the ASF user community in order to communicate their specific requirements for the future NASA data system to the ECS development engineers. Translated the science requirements into the data system functional requirements and facilitated development of design requirements. Developed a familiarity with the Facility's present day-to-day operations and data systems, as well as the Facility's short-term and long-term development plans, while simultaneously maintaining familiarity with the development designs and plans of NASA's ECS project. Duties included effective communication between ASF and the ECS system developers and maintaining a familiarity with both the science and the science community relevant to the ASF through outreach activities.

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Geophysical Institute, UAF, Fairbanks, Alaska

ASF USER SERVICES SPECIALIST

1994

Responsible for providing assistance to users of the ASF data, including knowledge of the ASF systems, NASA's Information Management System software, the ASF data holdings, and the specific needs of the ASF user community. Maintained and implemented keywords for searching for the ASF instance of the NASA system. Promoted the use of ASF data through public relations' efforts.

RESEARCH ASSISTANT

1987-1994

Performed original research applying magnetohydrodynamic computer simulations to space applications. Programmed extensively in Fortran and IDL using both UNIX and VAX/VMS operating systems on a wide range of computers, including PCs, Macintosh, workstations, and Cray Y-MP. Primary programming for Ph.D. thesis work was performed on supercomputers. Performed data analysis of ISEE-3 satellite data. Assisted in proposal writing for the research group.

TEACHING ASSISTANT

AUGUST 1986-JUNE 1987

Responsible for the laboratory section of Undergraduate Physics course at UAF's Physics Department, including laboratory lecture, grading lab work, and recitation lectures.

EDUCATION:

Ph. D. Space Physics, University of Alaska Fairbanks, 1994

M. S. Space Physics, University of Alaska Fairbanks, 1988

B. A. Physics, University of California, Berkeley, 1985

SELECTED PRESENTATIONS AT PROFESSIONAL SCIENCE MEETINGS:

La Belle-Hamer, N., Center For Arctic Sustainable Development at The University of Alaska Fairbanks, GEOSS meeting associated with the IEEE 2015 International Geoscience and Remote Sensing Symposium, July 2015.

La Belle-Hamer, N., A Data Provider's Perspective on the Challenges Facing Climate Change Research, GEOSS meeting associated with the IEEE 2006 International Geoscience and Remote Sensing Symposium, July 2006.

La Belle-Hamer, A., R. Gens, Issues and Challenges for Standardizing Level Zero Format for SAR Data, IEEE 2003 International Geoscience and Remote Sensing Symposium, July 2003.

La Belle Hamer, A., R. Kwok, G. Cunningham, C. Moore, and E. Barker, Jr., RADARSAT Geophysical Processor System: 2 Years of Production, IEEE 2002 International Geoscience Remote Sensing Symposium, July 2002.

La Belle-Hamer, A., R. Kwok, G. Cunningham, C. Moore, and E. Barker, Jr., RADARSAT Geophysical Processor Data Products and Results, IEEE 2001 International Geoscience and Remote Sensing Symposium, July 2001.

La Belle-Hamer, A., R. Kwok, G. Cunningham, and C. Moore, RADARSAT Geophysical Processor System Products for the Winter of 1997-98: Preliminary Results, IEEE 2000 International Geoscience and Remote Sensing Symposium, July 2000.

Kwok, R., N. La Belle-Hamer, and G.F. Cunningham, The RADARSAT Geophysical Processor System: Results and Data Availability, IEEE 1999 International Geoscience and Remote Sensing Symposium, July 1999.

Kwok, R., G.F. Cunningham, N. La Belle-Hamer, B. Holt, and D.A. Rothrock, Sea Ice Thickness From High-Resolution SAR Imagery, Eos, Trans. AGU, 80(42), 495-497, 1999.

Kwok, R., N. La Belle-Hamer, and G.F. Cunningham, Sea Ice Age, Thickness and Deformation From Synthetic Aperture Radar Imagery, IEEE 1998 International Geoscience and Remote Sensing Symposium, July 1998.

La Belle-Hamer, N., R. Kwok and G.F. Cunningham, The RADARSAT Geophysical Processor, AAAS Conference, October 1998.

La Belle-Hamer, A.L., ECS and Global Change Studies in the Coming Decade, International Union of Geodesy and Geophysics, July 1995.

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Conner, J.F., A.L. La Belle-Hamer, and G. Reynolds, A Comparison of Synthetic Aperture Radar Data From ERS-1 and JERS-1 Instruments Over Alaskan Terrain, International Union of Geodesy and Geophysics, July 1995.

La Belle-Hamer, A.L., A. Otto, and L.C. Lee, Magnetic Reconnection in the Presence of Sheared Plasma Flow: Application to the Earth's Magnetopause, Trans. Am. Geophys. Union, 1994.

Otto, A., A.L. La Belle-Hamer, and L.C. Lee, Generation of Field-Aligned Currents by Magnetic Reconnection, Trans. Am. Geophys. Union, spring, 1994.

La Belle-Hamer, A.L., A. Otto, and L.C. Lee, Magnetic Reconnection in the Presence of Sheared Plasma Flow, Trans. Am. Geophys. Union, fall 1993.

La Belle-Hamer, A.L., A. Otto, and L.C. Lee, MHD Simulations of Magnetic Reconnection at the Flanks of the Magnetosphere, Trans. Am. Geophys. Union, fall 1992.

Choe, G.S., A.L. La Belle-Hamer, B.T. Tsurutani, and L.C. Lee, Identification of a Driver Gas Boundary Layer, Trans. Am. Geophys. Union, fall 1992.

La Belle-Hamer, A.L., L.C. Lee, and B.T. Tsurutani, Identification of Driver Gas Boundaries, Trans. Am. Geophys. Union, 1991.

Fu, Z.F., A.L. La Belle-Hamer, and L.C. Lee, Generation of Field-Aligned Currents by Magnetic Reconnection, Trans. Am. Geophys. Union, 68, 1441, 1987.

SELECTED PUBLICATIONS:

Jezek, K.C., K. Farness, Wu X. Carande, N. La Belle-Hamer, RADARSAT 1 Synthetic Aperture Radar Observations of Antarctica: Modified Antarctic Mapping Mission, 2000, American Geophysical Union, Vol. 38, No. 4, June 5, 2003.

McNutt, S. Lyn, Jacqueline Richter-Menge, Nettie La Belle-Hamer, Observations of Regional Ice Dynamics in Seasonal and Perennial Ice Using RADARSAT SAR and In situ Data in the Beaufort and Chukchi Seas, submitted to the Canadian Journal of Remote Sensing, special edition, 2001.

Kwok, Ron, Glenn F. Cunningham, Nettie La Belle-Hamer, B. Holt, D.A. Rothrock, Ice Motion, Ice Age and Ice Thickness From Synthetic Aperture Radar Imagery, EOS transactions, American Geophysical Union, Vol. 80, No. 42, October 19, 1999, pages 495, 497.

Jezek, K.C., F. Carsey, J. Crawford, J. Curlander, B. Holt, V. Kaupp, K. Lord, N. La Belle Hamer, A. Mahmood, P. Ondrus, and C. Wales, Snapshots of Antarctica From RADARSAT 1,

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Proceedings Paper submitted to International Geoscience and Remote Sensing Society Meeting, July 1998.

Khalsa, S.J.S., S. Amer, H. Dirkseneli, N. La Belle-Hamer, A.K. Sharma, and G. Shirtliffe, An ECS Data Provider's Guide to Metadata, White Paper, 1996.

La Belle-Hamer, A.L., A. Otto, and L.C. Lee, Magnetic Reconnection in the Presence of Sheared Plasma Flow: Application to the Earth's magnetopause, J. Geophysical Res., 100, 11, 875, 1995.

La Belle-Hamer, A.L., A. Otto, and L.C. Lee, Effects of Sheared Plasma Flow on Magnetic Reconnection, Physics of Space Plasmas, Proceedings of the 1993 Cambridge Workshop in Geoplasma Physics and 1993 MIT Symposium on the Physics of Space Plasmas "Chaos, Turbulence, and Stochasticity," 13, edited by T. Chang and R. Jaspere, MIT Center for Theoretical Geo/Cosmo Plasma Physics, 1995.

La Belle-Hamer, A.L., Ph. D. Thesis, Magnetic Reconnection in the Presence of Sheared Plasma Flow, 1994.

La Belle-Hamer, A.L., A. Otto, and L.C. Lee, Magnetic Reconnection in the Presence of Sheared Plasma Flow: Intermediate Shock Formation, Physics of Fluids B, 1, 706, 1994.

Wei, C.Q., L.C. Lee, and A.L. La Belle-Hamer, A Simulation Study of the Vortex Structure in the Low-Latitude Boundary Layer, J. Geophys. Res., 95, 20793, 1990.

La Belle-Hamer, A.L., Master's Thesis, "The Kelvin-Helmholtz and Tearing Instabilities in Relation to Magnetic Reconnection at the Earth's Dayside Magnetopause," 1988.

La Belle-Hamer, A.L., Z.F. Fu, and L.C. Lee, A Mechanism for Patchy Reconnection at the Dayside Magnetopause, Geophys. Res. Lett., 15, 152, 1988.