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Issue 9: Contributors

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Issue 9: Contributors



Dr. Bobrowski has published research articles in such professional journals as including Decision Sciences, European Journal of Operational Research, International Journal of Production Research, International Journal of Technology Management, Journal of Operations Management, Journal of the Operational Research Society, Logistics and Transportation Review, National Productivity Review, Omega: The International Journal of Management Science, Production and Operations Management, Project Management Journal, and Quality Management Journal.

Dr. Bobrowski has also served on the editorial review boards for the Journal of Operations Management and Quality Management Journal. He has delivered scholarly papers at more than 15 conferences nationwide and has been honored for his research and teaching, including the prestigious Stanley T. Hardy Award for the Best Article in Operations Management (1989). Dr. Bobrowski has more than 20 years of teaching experience at various universities including Indiana University, University of Oregon, and Syracuse University. In addition, he has served as a consultant for Aerojet Corporation, Hazeltine Corporation, Avco, General Electric and many others. He is a member of the Decision Sciences Institute, the American Society for Quality and Beta Gamma Sigma. Dr. Bobrowski has served on the Board of Directors of SSPI.



Qishan Zhang is a professor at Beihang University in the People's Republic of China and a nationally recognized researcher in electrical engineering and satellite communications. He has received numerous national awards including China's second grade National Award of Invention and two second grade prizes for scientific progress from the National Scientific Department. His accomplishments include 6 books and 151 scientific papers on such topics as telemetry, remote control, ITS, and the Global Positioning System. He proposed the concept of Bridge functions in 1982, and developed the first prototype of the Sequency Division Multiplex (SDM) telemetry system in 1983. Professor Zhang is the chief scientist of School of Electronic and Information engineering of Beihang University. His current research interests include telemetry, wireless communication, RFID, GPS and Galileo systems.

Issue 9 guest editors were assisted by Randy Johnson.

Randy Johnson received his Ph.D. in Telecommunications from Ohio University, Athens, Ohio. His research interests include the political and historical development of the

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Günther Abwerzger received his Diploma degree in 2001 and his Doctoral degree in 2004 from Graz University of Technology. Since 2001 he has been employed at TeleConsult Austria GmbH, where he is mainly involved in algorithm and software development for sensor fusion in the context of positioning and navigation applications.

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Michael Albright is a graduate of Bridgewater College with a B.S in Computer Science. His past experiences at Datatel Inc. include GUI, database, and network application development. He is currently a software engineering consultant and has provided these services to The XYZs' of GPS, Inc. for the past three years.

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Gary Bachman is a systems/software engineer and technical director for military ground-based GPS products within the Sensor Systems Government Systems division at Rockwell Collins, Incorporated. He has been involved in the development of navigation capabilities for various military and commercial products and applications for over twenty years. He earned his B.S. in computer engineering from Iowa State University, IA.



D.r Xavier Bertrán is the Deputy Director of the Galileo Program within EADS SPACE Services. He holds a doctorate in engineering from the University of Technology Aachen (RWTH Aachen) in Germany. His current responsibilities include managing the project teams within the merged consortium in the Galileo concession process. He was previously the bid manager for the iNavSat consortium during the competitive bidding phase.

David M. Bevly is an assistant professor at Auburn University and head of the GPS and Vehicle Dynamics Lab. He received his PhD in Mechanical Engineering from Stanford University in 2001, his M.S. in M.E. from Massachusetts Institute of Technology in 1997, and his B.S. in M.E. from Texas A&M University in 1995.



Mike Bobye has been a Geomatics EIT at NovAtel Inc. since he graduated with a BSc in Geomatics Engineering from the University of Calgary in 1999. He worked in customer support until the fall of 2000, when he became a member of the research group assisting with the development of GPS/INS integration.

Chris Brown is a Senior Lecturer in the School of Engineering and Design at Brunel University. Having graduated from Leeds University in Civil Engineering he went to Brunel University in 1974, transferring to Mechanical Engineering in 1984. He is a Fellow of The Institution of Mechanical Engineers. His research interests in structural mechanics encompass bridge monitoring, silo design, and design of biomedical devices amongst others.

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He has been an aviation safety inspector with the FAA Flight Standards Service for the past 17 years. Formerly a U.S. Air Force C-141 pilot, he holds an airline transport pilot certificate with over 5,500 hours of international, heavy jet flying time.



Luis Chocano received the Aeronautical Engineer degree from the Polytechnic University of Madrid (Spain). He is currently Head of the Satellite Navigation Department in INECO. Previously, he has worked in McDonnell Douglas, Iberia and INTA (Institute for Aerospace Technology and Research).

Al Cleveland served more than 28 years in the U. S. Coast Guard. His accomplishments include redesign of Coast Guard communication station transmit control systems and design & fabrication of the first multi-mode multi-agency mobile communications facility. He has served as lead engineer for the Coast Guard's next generation tactical & navigational system and is currently assigned as lead Reference Station (RS) and in Integrity Monitor (IM) architecture engineer at Coast Guard Command and Control Engineering Center (C2CEN).

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J.C. De Mateo is a Microelectronics Engineer supporting the Galileo Project at ESA in the technical development of test user receivers and ground reference receivers. He was previously involved in the development of simulations tools and signal analyses for Galileo and EGNOS projects.

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Dr. Per Enge is a Professor of Aeronautics and Astronautics at Stanford University, where he is the Kleiner-Perkins, Mayfield, Sequoia Capital Professor in the School of Engineering. He is also the Director of the GPS Research Laboratory, which works with the FAA, U.S. Navy, U.S. Air Force and U.S. Coast Guard to pioneer systems that augment the Global Positioning System (GPS). Per has received the Kepler, Thurlow and Burka Awards from the Institute of Navigation for his work. He is also a Fellow of the ION and the IEEE.



Dr. Michael Fairbanks is a senior associate in Booz Allen Hamilton's Global Transportation Team and has extensive experience in the radionavigation, aviation and maritime sectors. He has been deeply involved in policy, strategic and business aspects of the European radionavigation programme since its very early days, working on EGNOS, LORAN-C and Galileo. Dr Fairbanks holds Master of Arts (MA) and Doctor of Philosophy (DPhil) degrees from Oxford University. He is a Fellow of the Royal Institute of Navigation (FRIN), a Member of the US Institute of Navigation, and is also a Member of the Institute of Physics and a Chartered Physicist.



Xie Fei received B.S. (1990) in Electrical Engineering and M.S. (2000) in System Reliability Engineering from Beijing University of Aeronautics and Astronautics, Beijing, China. He also received M.S. (2003) in Electrical Engineering and MBA (2005) from Auburn University, Alabama. He is currently pursuing doctoral studies in electrical engineering, where his research efforts are focused on reliability and fretting corrosion in electrical connectors. As an Engineer, he worked three years at the Institute of Railway Science and seven years at the Beijing University of Aeronautics and Astronautics. His work mainly focused on system reliability, vibration, electrical system in hardware and software design. He is currently an IEEE member.

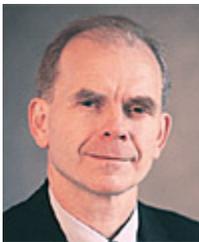
Kendall Ferguson is a graduate of George Mason University with a B.S. in Computer Science. He has over 20 years experience in GPS Software development, realtime operating system use and development, and real-time software development. During his employment in DoD related contracting, Mr. Ferguson was a key member in development of the real-time, safety critical, launch control systems of the Tomahawk & Harpoon missile systems. While employed at Ashtech (1988-1992), he was responsible for the development of Ashtech's GPS post-processing software, support software, and

other innovative GPS software. At The XYZs of GPS, Inc., Mr. Ferguson leads the development of the company's real-time GPS capabilities and other GPS software. Currently, he is the XYZs lead engineer on the NDGPS Architecture Modernization and the FHWA/USCG High Accuracy-NDGPS projects.



Tom Ford is a GPS specialist at NovAtel Inc. He has a BMath degree from the University of Waterloo (1975) and a BSc in survey science from the University of Toronto (1981). He became involved with inertial and GPS technologies at Sheltech and Nortech surveys in 1981. He is a member of the original group of GPS receiver developers at NovAtel Inc., where he has helped develop many of the core tracking, positioning, attitude determination and inertial technologies used there. His current focus is the modernization of the RTK processes used at NovAtel Inc.

Chuck Frey is a Senior Staff Systems Engineer with Lockheed Martin. He holds a Bachelor of Science Degree in Aerospace Engineering from the Pennsylvania State University and a Masters of Science Degree in Mechanical Engineering from Villanova University. Chuck developed the suite of tools, Precise Real-time Orbits (PRO) capable of ground or orbit determination which was used for this analysis. He has also been involved in several integration efforts for large-scale ground/satellite programs. Chuck currently supports the GPS III program as the integrated program thread lead for Position, Velocity and Timing requirements.



Glen Gibbons is the managing director of Gibbons Media & Research LLC, a Eugene, Oregon-based business providing news and analysis in the field of global navigation satellite systems. He founded GPS World in 1989. For sixteen years, he led the magazine and developed the journalistic model for covering space-based positioning, navigation, timing, and the leading technologies with which GNSS is integrated. He is launching a new magazine, Inside GNSS, in 2006.

His creation of Galileo's World in 1999 anticipated the development of Europe's emerging global navigation satellite system. He has covered GLONASS since publishing what was probably the first trade article on the Russian satellite system in 1990. For ten years (1991-2000), Gibbons also wrote and edited the biweekly GPS World Newsletter. During 1998-99, he launched and edited GeoConvergencia, a Spanish- and Portuguese-language supplement to GPS World. He was editor of the reference publication, GPS World's Big Book of GPS 2000. During the last six years he served as group editorial director and associate

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Gibbons received the U.S. Institute of Navigation's 2003 Norman P. Hayes Award for outstanding encouragement, inspiration, and support contribution to the advancement of navigation. He is a frequent invited speaker and panelist at international events, as well as an often-quoted source for news media. Gibbons holds a B.A. in political science from Willamette University and studied Chinese language and culture at the East-West Center in Hawaii. He earned an M.A. in journalism from the University of Oregon.

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Umberto Guida is the ESSP Business Development Manager, responsible for the ESSP participation in European Research and Development projects and contributing to the EGNOS Safety of Life Service Provisions set-up activities. Before joining ESSP, he was the technical responsible at Alenia Spazio for projects and studies with ESA, EC, GJU, national Institutions and Public/Private Companies, related to the applications for Satellite Navigation, in view of the next EGNOS start of operations and the Galileo system development.



Joe B. Hanna (PhD., New Mexico State University) currently serves as Associate Professor of Logistics at Auburn University. Dr. Hanna has published numerous logistics and transportation related articles in a variety of publication outlets and has co-authored several books in the logistics field. Dr. Hanna is also active in supply chain consulting and holds memberships in several professional organizations.



Mark Hardesty is an Associate Technical Fellow at The Boeing Company - Integrated Defense Systems in Mesa, Arizona. For the last 19 years, he has been designing and directing helicopter flight tests, focusing on exploiting COTS technology. He has developed and employed acoustic, atmospheric, and Time Space Position Information (TSPI) data systems for a variety of research and FAA certification flight tests, and holds a U.S. Patent for a precision flight test guidance system based on the NovAtel series of precision RTK DGPS receivers. Mark has B.S. and Master's Degrees in Mechanical Engineering from North Carolina State University.

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Gregory Johnson is a Senior Program Manager at Alion Science & Technology, JJMA Maritime Sector. He heads up the New London, CT office which provides research and engineering support to the Coast Guard Academy and Coast Guard R&D Center. He has a BSEE from the USCG Academy (1987) a MSEE from Northeastern University (1993) and a PhD in Electrical Engineering from the University of Rhode Island (2005). Dr. Johnson is a member of the Institute of Navigation, the International Loran Association, the Institute of Electrical and Electronics Engineers, and the Armed Forces Communications Electronics Association. He is also a Commander in the Coast Guard Reserves.

After his doctorate in EEE from BITS, Pilani, Dr. S.V. Kibe joined ISRO HQ in 1978. Currently he is the Programme Director, SATNAV and Deputy Director in the INSAT Programme Office. As Deputy Director in the INSAT Programme Office, he is responsible

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Dr. Benjamin Remondi worked for NASA and NOAA, completing his government career at NOAA's National Geodetic Survey. He received engineering degrees from The University of Delaware, The Johns Hopkins University, and The University of Texas at Austin. He worked for Ashtech, Inc. during Ashtech's first years. He is currently the President of The XYZs of GPS, Inc. which is a GPS R&D company emphasizing real-time applications and precise (RTK) applications.



Dr. Günther Retscher is Assistant Prof. at the Institute of Geodesy and Geophysics of the Vienna University of Technology, Austria, since August 2001. He received his Ph.D. from the same university in 1995. His main research and teaching interests are in the fields of engineering geodesy, satellite positioning and navigation as well as application of multi-sensor systems in geodesy and navigation. He is Secretary of IAG Sub-Commission 4.2 and chairs the working group WG 4.1.2 on "Indoor and Pedestrian Navigation" under Sub-Commission 4.1.



Martin U. Ripple joined EADS shortly after the merger of DASA, Aerospatiale Matra and CASA in 2000. His original position was head of the Group Strategic Planning process. Since July 2002, he has been responsible for the Galileo program within the EADS SPACE division. He graduated with a degree in mechanical and aeronautical engineering from the Eidgenoessische Technische Hochschule (ETH), Zurich, in 1994.

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Ronald Sicker is a graduate of the Ohio University BSEE program. From 1983-1989 he was a USAF Flight Test Engineer on a fleet of EC-135 Advanced Range Instrumentation Aircraft (ARIA). He provided in-flight support for 38 space and missile tests plus planning and managing the satellite and telemetry support for over 50 launches from the USAF Eastern Test Range. Moving to NASA in 1989 he was an original member of the Advanced Communications Technology Satellite (ACTS) Experiment Office. ACTS launched in 1993 and opened the Ka band and proved the feasibility of hopping spot beam technology.

From 1991-1993 he managed the power system protection sub element of the electrical power management and distribution system on the Space Station, 1994-2004 he managed the Space Acceleration Measurement System (SAMS) and the Orbital Acceleration Research Experiment (OARE) for 15 Shuttle launches. After the tragic loss of the Crew along with SAMS and OARE on Columbia (STS-107) Ron has been working in the Satellite Based Technology (SBT)/Advanced Communication Navigation and Surveillance Architectures System Technology (ACAST) as the Deputy Project Manager.

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Dr. Nick Ward is Research Director of the General Lighthouse Authorities of the UK & Ireland, with responsibility for strategy & planning of research & development. His area of specialisation is in radionavigation and communications, including Automatic Identification Systems (AIS). He is current chairman of the International Association of Marine Aids to Navigation and Lighthouse Authorities (IALA) Radionavigation and AIS Committees and UK Observer on the Northwest European Loran System Steering Committee. He is a Chartered Engineer, a Fellow of the Royal Institute of Navigation and a Member of ION.

Dave Wells is Professor Emeritus in the Department of Geodesy and Geomatics Engineering at UNB, as well as Professor in the Dept. of Marine Science at the University of Southern Mississippi (USM), and Adjunct Professor in the Center for Coastal and Ocean Mapping at the University of New Hampshire. Dave's academic interests include

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Jon Westbrook graduated from the University of East Anglia in the UK with a degree in Electronics with Business Studies. He is employed by National Air Traffic Services UK and is currently detached to the ESSP. Prior to joining the ESSP he was detached to work for the European Space Agency in Toulouse as part of the ESA EGNOS project office and was the system engineer responsible for overseeing the design, development and procurement of the EGNOS Central Processing Facility. He was the first member of the ESSP operations team and has project managed the operations preparation phase contract and managed the negotiations with ESA for the EGNOS Initial Operations Phase.

Jeffrey T. Williams is the manager for Area Navigation (RNAV) and Required Navigation Performance (RNP) programs for the Federal Aviation Administration. In this position he is responsible for developing and implementing a plan to transition the National Airspace System from the current ground-based navigation system to a performance-based system. He currently serves as the US Member to the International Civil Aviation Organization (ICAO) RNP Study Group. Prior to being named RNAV/RNP Division Manager in 2003, he served as manager of the Air Traffic RNAV Implementation Staff. Williams served three years as co-chair for the Communications/ Surveillance Operational Implementation Team and two years as the Air Traffic Services GPS Integrated Product Team Lead. He also served six years as the US Member to the ICAO Global Navigation Satellite System Panel. He has 10 years air traffic control experience at Boston Tower and Boston Terminal Radar Approach Control, where he was a supervisor.

Williams graduated from Daniel Webster College with a bachelor-of-science degree in management. He is also a commercial pilot with instrument and multi-engine ratings and he is a certified flight instructor. Williams resides with his family in Fredericksburg, Virginia.

David Wolfe is the Senior Engineer & Project Manager for the Nationwide & Maritime Differential GPS and Short Range Aids to Navigation projects at C2CEN, the US Coast Guard's primary engineering facility for land-based navigation systems. He is an active member of the Radio Technical Commission for Maritime Services (RTCM) Special Committee 104 (SC-104) for Maritime Differential GPS; International Electro technical Commission (IEC), Technical Committee 80, working group 4A for GNSS and DGNSS receiver standards; and the International Association of Lighthouse Administrations (IALA) radio navigation committee. He earned his BSEE from Drexel University in 1990. Mr. Wolfe is a member of the Institute of Navigation council as Marine Representative.

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Akio Yasuda is a professor at Tokyo University of Marine Science and Technology. He received his doctorate in engineering from Nagoya University. He is the president of GPS Society, Japan Institute of Navigation (JIN GPS). His major subjects are satellite communication and positioning system, including GPS application and the development of the instruments for marine researches.



Dr. Yujie Zhang is a senior GPS software engineer with NavCom Technology, Inc., Torrance, California. She received her PhD in Electrical Engineering in 2005 from Ohio University, Athens, Ohio. In addition, she received a Master in Electrical Engineering from Beijing Normal University, Beijing, China; and, a Bachelor in Computer Engineering from Xian Institute of Technology, Xian, China. Dr. Zhang is a member of the Institute of Navigation and the IEEE. She has been recognized at the IEEE PLANS 2004 Conference for best GPS track paper and at ION GNSS 2003 Conference for best session paper on algorithms and methods. In addition, she received the very first Section-Sponsored Graduate Student Award from the ION and the Gus Smith Memorial Engineering Award from the Russ College of Engineering and Technology at Ohio University. Dr. Zhang has previous work experience in data network and mobile communication engineering since 1996. Her research and development interests concentrate on all aspects of high-accuracy positioning using GNSS technology. Dr. Zhang is a U.S. licensed professional engineer.

Alexei E. Zinoviev received his MS in geodetic astronomy from Moscow Institute of Engineers for Geodesy, Aerial Surveying and Cartography (now - Moscow State University of Geodesy and Cartography). He joined Institute for Space Device Engineering (ISDE) in 1988, Ashtech Inc. in 1993 and Javad Positioning Systems in 1997. At present, he is with Topcon Positioning Systems as the leader of the Firmware Development team.