

# Program Day 1 - 2021 DGON Inertial Sensors and Systems

Wednesday, September 29, 2021 - Central European Standard Time (CEST)

11:00 CEST	<b>Welcome - Conference Chair</b>	Peter Hecker, <i>TU Braunschweig, Germany</i>
	<b>IEEE/AESS Gyro and Accelerometer Panel / Invited Paper: Moderators Peter Hecker &amp; Steffen Zimmermann</b>	
11:20	<b>60 Years of IEEE Standards</b>	Jason Bingham <i>IEEE GAP</i>
	<b>Session 1: Fiber Optic Gyros - Chair: Mike Perlmutter</b>	
11:45	New method for residual amplitude modulation control in RFOG	Maxime Descampeaux <i>Université Paris-Saclay, Thales France</i>
12:10	<b>Break</b>	
12:20	On specification and measurement of the IFOG vibration error	Wolfgang Katrycz <i>Safran Electronics &amp; Defense, Germany</i>
12:55	Linearization of open-loop fiber optic gyroscope with Mean-Value demodulation scheme	Marllon Welter Schlischtig <i>State University of Campinas, Brazil</i>
13:20	<b>Break</b>	
	<b>Session 2: Coriolis Gyros - Chair: Edgar von Hinüber &amp; Yuanxin Wu</b>	
13:45	A configurable single axis Si-MEMS Gyro platform	Sebastian Meier-Meybrunn <i>Northrop Grumman LITEF, Germany</i>
14:10	EPSILON-XP by SAFRAN - How to boost your Coriolis Gyroscope	Guillaume Le-Bruchec <i>Safran Electronics &amp; Defense, France</i>
14:35	<b>Break</b>	
14:45	Vibration model of mode order optimized vibrating ring gyroscope	Zhengcheng Qin <i>Southeast University Nanjing, China</i>
15:10	Spatial oscillator van der pol. technical applications in gyroscopy	Aleksandr Skripkin <i>Saratov State Technical University, Russia</i>
15:35	<b>Resumee</b>	

# Program Day 2 - 2021 DGON Inertial Sensors and Systems

Thursday, September 30, 2021

10:55 CEST	<b>Welcome</b>	
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## Session 3: Algorithms & Systems - Chair: Jörg Wagner

11:00	The role of reliable and robust GNSS in GNSS/INS integrations	Gustavo Lopez <i>Septentrio, Belgium</i>
11:25	Transfer function measurement station for inertial sensors	Johannes Schoder <i>MBDA, Germany</i>

11:50 **Break**

12:00	Mitigating runge effect for highly-dynamic motion computation	Yuanxin Wu <i>Shanghai Jiao Tong University, China</i>
12:25	North finding with a single double mass MEMS gyroscope – A performance demonstrator	Daniel Bülz <i>Fraunhofer ENAS, Germany</i>

12:50 **Break**

## Session 4: MEMS-Sensors & IMUs - Chair: Uwe Herberth

13:15	High performance MEMS accelerometer and gyro with a unique SMD and digital interface	Antoine Filipe <i>Tronic's Microsystems, France</i>
13:40	Does the Android operating system provide what the MEMS-IMU manufacturers promise?	Mohamed Bochkati <i>Bundeswehr University Munich, Germany</i>
14:05	Compact quartz MEMS IMU: from tactical short-term navigation grade	Sergey Zotov <i>Emcore, USA</i>

14:30 **Break**

## Session 5: Quantum Gyros - Chair: Ulrich Mangold

14:40	Geometric phase measurement of nitrogen-vacancy center in diamond suitable for quantum gyro	Xiang Shen <i>Southeast University Nanjing, China</i>
15:05	Performance evaluation of a three-dimensional cold atom interferometer based inertial navigation system	Nicolai Ben Weddig, <i>Leibniz University Hannover, Germany</i>

15:30	<b>Closing &amp; Announcement of next DGON ISS 2022</b>	Peter Hecker <i>TU Braunschweig, Germany</i>
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# 2021 DGON Inertial Sensors and Systems

## Alternate Presentations

Highly Birefringent (HiBi) Fiber Design Considerations for Polarization Maintaining (PM) Fiber Optic Gyroscopes (FOGs)

Dr. Andy Gillooly  
*Fibercore Limited, UK*

**All times are CEST (Central European Standard Time)**