

Preliminary Program of OSTIV Congress

Benalla, Australia

8-13 January 2017

	Sunday, 8 January 2017	
13:00 - 14:30	Registration	BPAC Room 3
	Benalla Arts Gallery	
15:00 - 16:30	Opening Ceremony and Presentation of OSTIV-Prize 2017	

	Monday, 9 January 2017	
	Benalla Performing Arts Centre (BPAC)	
08:00 - 10:00	Registration	BPAC Room 3
	Aging Sailplane Structures	BPAC Room 1+2
	Chair: NN	
09:00 - 09:30	PIK-20D GLIDER FATIGUE REVIEW. Erkki Soinne , Helsinki, Finland.	
09:30 - 10:00	FLUTTER IN AGING AIRCRAFT. Ullrich Kopp, Braunschweig, Germany.	
10:00 - 10:30	A CASE STUDY IN GELCOAT CRACK PROPAGATION BELOW PU PAINT. Rob Hanbury, Broadmeadows, Australia.	
10:30 - 11:00	coffee break	
	Sailplane Safety	BPAC Room 1+2
	Chair: NN	
11:00 - 11:30	IS MORE FLIGHT MANUAL INFORMATION NEEDED ON SPIRAL DIVE RECOVERY? Gerhard Waibel, Bad Hindelang, Germany.	
11:30 - 12:00	PERCEPTUAL ERRORS IN THE TURN FROM BASE TO FINAL. Daniel Johnson, Menomonie, Wisconsin, USA.	
12:00 - 13:30	lunch break	
	Electric Propulsion	BPAC Room 1+2
	Chair: NN	
13:30 - 14:00	ELECTRIC PROPULSION FOR GLIDING - STATE OF THE ART AND FUTURE. Axel Lange, Zweibrücken, Germany.	
14:00 - 14:30	SIDE-BY-SIDE FLYING WITH E-POWER: INDEPENDENT AND SAFE. Lars Muth, Wildau,	
14:30 - 15:00	coffee break	
	Medical Factors	BPAC Room 1+2
	Chair: NN	
15:00 - 15:30	FIELD PHYSIOLOGY: INFLIGHT MEASUREMENTS TO MONITOR OXYGEN SATURATIONS OF PILOTS DURING HIGH-ALTITUDE GLIDER FLIGHTS OF THE MOUNTAIN WAVE PROJECT IN THE HIMALAYAN REGION AND THE FRENCH ALPS. C. Ledderhos, R. Heise, Ch. Gamel, A. Gens, Fürstenfeldbruck, Germany.	
15:30 - 16:00	"LOW"-ALTITUDE HYPOXIA: NATURE AND SIGNIFICANCE. Daniel Johnson, Menomonie, Wisconsin, USA.	
	Evening Session	BPAC Auditorium
	Chair: NN	
20:00 - 20:30	FES TECHNOLOGY DEVELOPMENT MILESTONES. Luka Žnidaršič, Logatec, Slovenia.	
20:30 - 21:30	INITIATIVE PROSEGELFLIEGER - A PACKAGE OF MEASURES FOR THE EFFECTIVE ENHANCEMENT OF PASSIVE SAFETY OF SAILPLANES. Martin Volck, Wiener Neustadt, Austria.	

	Tuesday, 10 January 2017	
	Benalla Performing Arts Centre (BPAC)	
08:00 - 09:00	Registration	BPAC Room 3
	Boundary Layer Transition	BPAC Room 1+2
	Chair: NN	
09:00 - 09:30	INFLUENCE OF ZIGZAG-TAPE ON PROFILE DRAG AT LOW REYNOLDS NUMBERS. Thiemo Hofmacher, Peter Scholz, Braunschweig, Germany.	
09:30 - 10:00	LAMINAR-TURBULENT TRANSITION ON WINGS WITH 3D FLOW EFFECTS. Federico Muñoz, Rolf Radespiel, Braunschweig, Germany.	
10:00 - 10:30	VALIDATION OF NUMERICAL MODELS FOR TRANSITIONAL FLOWS ON AIRFOILS. J. Přihoda, P. Straka, J. Fürst, L. Popelka, D. Šimurda, Praha, Czech Republic.	
10:30 - 11:00	coffee break	
	Sailplane Performance	BPAC Room 1+2
	Chair: NN	
11:00 - 11:20	INSIGHTS ON THE IMPLICATIONS OF FLYING INCORRECT SPEEDS WITH QUADRATIC AND NON-QUADRATIC POLARS. Michael Steckner, Beachwood, USA.	
11:20 - 11:40	SPEED TO FLY THEORY - IMPLICATIONS OF FLIGHT TEST DATA VARIABILITY. Michael Steckner, Beachwood, USA.	
11:40 - 12:00	SPEED TO FLY THEORY - POTENTIAL ISSUES WITH MODERN SAILPLANES WITH NON-QUADRATIC POLARS. Michael Steckner, Beachwood, USA.	
12:00 - 13:30	lunch break	
	Atmospheric Waves	BPAC Room 1+2
	Chair: NN	
13:30 - 14:00	USING DATA FROM HIGH-ALTITUDE SAILPLANE FLIGHTS TO STUDY ATMOSPHERIC MOUNTAIN WAVES. Rick Millane Ni Zhang, Einar Enevoldson, James Murray , Christchurch,	
14:00 - 14:30	THE HARZ-FOEHN-PROJECT - EMPIRICAL RESEARCH ON MOUNTAIN WAVES IN AN NORTHERN GERMAN LOW MOUNTAIN RANGE. Karl-Heinz Dannhauer, Leipzig, Germany.	
14:30 - 15:00	coffee break	
	Atmospheric Convection	BPAC Room 1+2
	Chair: NN	
15:00 - 15:30	HEAT TRANSFER BY CONVECTION FROM THE GROUND TO A TYPICAL AUSTRALIAN THERMAL. David M. Wilson , Glen Iris, Australia.	
15:30 - 16:00	INVESTIGATION OF THE VEGETATION EFFECTS ON CONVECTION BY USING COSMO-CLM. Nilcan Akataş, Serhan Yeşilköy, Zafer Aslan , Istanbul, Turkey.	
20:00 - 21:00	OSTIV General Conference	

	Wednesday, 11 January 2017	
	Departing Benalla Air Field	
09:30 - 17:00	Excursion to North East Victoria region	
	Wangaratta Warbirds, Mt Buffalo / Victorian Alps, Baileys Winery, Winton Wetlands	
	Benalla Performing Arts Centre (BPAC)	
	Evening Session	BPAC Auditorium
	Chair: Rolf Radespiel	
20:00 - 21:30	FUTURE OF THE OPEN CLASS. Panel Discussion: Loek Boermans, Tilo Holighaus, Atti Jonker, Axel Lange, Gerhard Waibel.	

	Thursday, 12 January 2017	
	Benalla Performing Arts Centre (BPAC)	
	Configuration Aerodynamics	BPAC Room 1+2
	Chair: NN	
09:00 - 09:30	SAILPLANE WINGLETS: HOW MANY TIPS ARE TOO MANY TIPS? Travis Krebs, Götz Bramesfeld, Toronto, Canada.	
09:30 - 10:00	INVESTIGATING DESIGNS FOR AUTONOMOUS GLIDER EXPLORATION OF OUTER SOLAR SYSTEM ATMOSPHERES. Christopher Colletti, Raymond P. LeBeau, Goetz Bramesfeld, Saint	
10:00 - 10:30	THE USE OF COMPUTATIONAL FLUID DYNAMICS ANALYSIS IN WING-WINGLET DESIGN. Mark Maughmer, James G. Coder, University Park, PE, USA.	
10:30 - 11:00	coffee break	
	Sailplane Loads	BPAC Room 1+2
	Chair: NN	
11:00 - 11:30	ON THE GUST LOAD OF SAILPLANES. Loek M. M. Boermans , Delft, Netherlands.	
11:30 - 12:00	LIFETIME CONSIDERATIONS ON SAILPLANES. Christoph Kensche, Stuttgart, Germany.	
12:00 - 13:30	lunch break	
	Soaring in Atmosphere	BPAC Room 1+2
	Chair: NN	
13:30 - 14:00	DO NOT GET CAUGHT-ON-TOP! Edward Hindman, Wurtsboro, USA.	
14:00 - 14:30	WAVE AND ROLL OVER THE PLAINS. Daniel Johnson, Menomonie, Wisconsin, USA.	
14:30 - 15:00	coffee break	
	Atmospheric Convection	BPAC Room 1+2
	Chair: NN	
15:00 - 15:30	COMPARISON OF FIELD MEASUREMENTS AND MODIS ALBEDO DATA AND ITS EFFECT ON LATENT HEAT FLUX. Serhan Yeşilköy, Nilcan Akataş, Levent Şaylan, Zafer Aslan, Fatih Bakanoğulları, Istanbul, Turkey.	
	Evening Session	BPAC Auditorium
	Chair: NN	
20:00 - 21:30	PERLAN PROJECT - THE FIRST YEAR IN ARGENTINA WITH THE PERLAN 2 GLIDER. Morgan Sandercock, Bend, USA.	

	Friday, 13 January 2017	
	Benalla Performing Arts Centre (BPAC)	
	Sailplane Propulsion	BPAC Room 1+2
	Chair: NN	
09:00 - 09:30	ELECTRIC PROPULSION IN GLIDER IS MORE THAN AN ALTERNATIVE TO TRADITIONAL COMBUSTION ENGINES. Rainer Klein , Mosbach, Germany.	
09:30 - 10:00	INVESTIGATIONS INTO THE DESIGN OF A TWO-SEAT, SELF-LAUNCHING MOTOR GLIDER. Rosemary Taouk, Sydney, Australia.	
10:00 - 10:30	SOARING MEETS CRUISING – OPTIMAL STRATEGIES IN POWERED FLIGHTS. T. Mörsel, P. Scheffel , Strausberg, Germany.	
10:30 - 11:00	coffee break	
	Simulation	BPAC Room 1+2
	Chair: NN	
11:00 - 11:30	SIMULATORS FOR GLIDER TRAINING - EXAMINING BARRIERS TO WIDESPREAD ADOPTION. Justin Couch, Currans Hill, Australia.	
11:30 - 12:00	SIMULATION SURVEY. Gerard Robertson, New Zealand.	
12:00 - 13:30	lunch break	
	Performance and FAI Class	BPAC Room 1+2
	Chair: NN	
13:30 - 14:00	FLIGHT PERFORMANCE MEASUREMENT OF GLIDERS WITH GNSS-SYSTEM Kai Rohde-Brandenburger, Braunschweig, Germany.	
14:00 - 14:30	REINFORCEMENT LEARNING ALGORITHMS FOR SOARING FLIGHT IN TURBULENT ENVIRONMENTS Gautam R. Nallama , La Jolla, California, USA.	
14:30 - 15:00	ASPECTS OF FAI 13.5M CLASS. Helmut Fendt, Braunschweig, Germany.	
	North Eastern Hotel, Benalla	
19:00	Congress Closing Dinner	