

2<sup>nd</sup> Advanced Course on Radar Polarimetry 2013  
 ESA-ESRIN, 21-25 January 2013  
 Frascati (Rome), Italy

Programme

	Monday 21 DAY 1	Tuesday 22 DAY 2	Wednesday 23 DAY 3	Thursday 24 DAY 4	Friday 25 Day 5
	Registration (8:30 - 9:00)				
9:00 - 9:30	<b>Opening</b> <i>Dr. Mark Doherty (ESA)</i>  <b>Course intro. &amp; organisation</b> <i>Yves-Louis Desnos &amp; Andrea Minchella (ESA)</i>	<b>ESA EO Programs</b> <i>Yves-Louis Desnos (ESA)</i>	<b>ESA SENTINEL-1 Mission</b> <i>Pierre Potin (ESA)</i>	<b>TerraSAR-X / TanDEM-X</b> <i>Prof. I.Hajnsek (DLR, Germany)</i>	<b>Recent Advances in Theory and Applications of Radar Polarimetry</b>  <b>Speckle Modelling</b> <i>Dr. Carlos Lopez-Martinez, UPC - Spain (8:30 - 9:20)</i>  <b>Urban: Classification and 3D rendering</b> <i>Dr. Elise Koeniguer, ONERA - France (9:20 - 10:10)</i>  <b>Tackling temporal decorrelation in repeat-pass polarimetric interferometry</b> <i>Dr. Marco Lavalle, Jet Propulsion Laboratory (10:10 - 10:50)</i>
9:30 - 11:00	<b>PolSAR Basic Concepts</b> <i>Prof. Eric Pottier (University of Rennes 1, France)</i>	<b>PolSAR Advanced Concepts</b> <i>Prof. Eric Pottier (University of Rennes 1, France)</i>	<b>Pol-InSAR Intro &amp; Basics</b> <i>Prof. Shane R Cloude (AEL, UK)</i>	<b>PolSAR - Surface Parameters Estimation Intro &amp; Basic</b> <i>Prof. Irena Hajnsek</i>	
11:00 - 11:30	Coffee Break				Coffee Break
11:30 - 13:50	<b>PolSAR Basic Concepts</b> <i>Prof. Eric Pottier (University of Rennes 1, France)</i>	<b>NEST 4C Overview</b> <b>The link between PolSARpro &amp; NEST</b> <i>Andrea Minchella (RSAC c/o ESA)</i>	<b>Pol-InSAR Advanced Concepts</b> <i>Prof. Shane R Cloude</i>	<b>PolSAR - Surface Parameters Estimation Advanced Concepts</b> <i>Prof. Irena Hajnsek</i>	<b>Recent Advances in Theory and Applications of Radar Polarimetry</b>  <b>Multi Baseline - PolInSAR</b> <i>Dr. Stefano Tebaldini, POLIMI - Italy (11:20 - 12:10)</i>  <b>PolInSAR Modelling</b> <i>Dr. Konstantinos Papathanassiou, DLR - Germany (12:10 - 13:00)</i>  <b>Agriculture: Phenology monitoring and Soil moisture retrieval</b> <i>Dr. Juan M. Lopez-Sanchez, University of Alicante -Spain (13:00 - 13:50)</i>
13:50 - 15:00	Lunch				Lunch
15:00 - 16:30	<b>PolSARpro Overview</b> <i>Prof. Eric Pottier (University of Rennes 1, France)</i>	<b>PolSAR Practical PolSARpro / Land Cover</b> <i>Prof. Eric Pottier (University of Rennes 1, France)</i>	<b>Pol-InSAR Practical Biomass Estimation</b> <i>Prof. Shane R Cloude</i>	<b>PolSAR Practical Surface Parameters Estimation</b> <i>Prof. Irena Hajnsek</i>	<b>Future Mission</b> <b>Sentinel 1 System and Data</b> <i>Nuno Miranda, ESA (15:00 - 15:30)</i>  <b>Future perspective on Radar Polarimetry and its Applications</b> <b>Keynote address</b> <i>Dr. Wolfgang-Martin Boerner Professor Emeritus and Director UIC-ECE Communications, Sensing &amp; Navigation Labs (15:30 - 16:30)</i>
16:30 - 17:00	Coffee Break				
17:00 - 18:30	<b>PolSARpro General Practical</b> <i>Prof. Eric Pottier (University of Rennes 1, France)</i>	<b>PolSAR Practical PolSARpro / Time-series analysis</b> <i>Prof. Eric Pottier (University of Rennes 1, France)</i>	<b>Pol-InSAR Practical Biomass Estimation</b> <i>Prof. Shane R Cloude</i>	<b>PolSAR Practical Surface Parameters Estimation</b> <i>Prof. Irena Hajnsek</i>	<b>Closing Session (16:30 - 17:00)</b>
	<b>Welcome Cocktail (18:30 - 19:30)</b>				