Program EnKF Workshop 2011

Monday 20/06/2011:

11:30-12:00:	Check in
	Lunch
	Welcome, Randi Valestrand (IRIS)
13:15-13:45: H	Hans Wackernagel (Ecole des Mines de Paris) and Laurent Bertino (NERSC): Localisation of the Kalman filter update without spoiling the covariance structure
13:45-14:15: I	a geostatistical perspective)" brahim Hoteit, Xiaodong Luo and Thomas Amler (King Abdullah University of Sciences and Technology, KAUST, Thuwal, KSA): "Robust Ensemble Kalman Filtering For Data Assimilation into Large Scale Models with Intermittent and Fast Varying Regimes"
14:15-14:45: \$ (Svetlana Dubinkina, Hugues Goosse and Yoann Sallaz-Damaz Lemaître Center for Earth and Climate Research, Earth and Life Institute, Universitè Catholique de Louvain, Louvain-la-Neuve, Belgium): "A data assimilation approach to reconstruct climate changes over the past centuries "
14:45-15:00: E	Break
15:00-15:45: (Geir Evensen (Statoil); "An Ensemble Smoother for Assisted History Matching"
ι	Anahita Abadpour, Richard Rivenq (Geosciences Research Centre, Total E&P JK): "History Matching and Production Forecast Uncertainty Using Ensemble Kalman Filter: a Real Field Case Study"
16:15-16:45: \	fan Chen (IRIS) and Dean Oliver (CIPR): "Iterative ensemble smoother for eservoir history matching"
16:45-17:00: E	<mark>Break</mark>
"	Harrie-Jan Hendriks Franssen (Institute of Bio- and Geosciences (IBG): Ensemble Kalman Filter in subsurface hydrology: operational implementation and non-Gaussianity."
17:45-18:15:	Jon Sætrom (Statoil Research Centre): "Error Quantification in the Ensemble Kalman Filter"
<mark>19:30: [</mark>	<mark>Dinner</mark>

Tuesday 21/06/2011:

08:30-09:15:	Al Reynolds (University of Tulsa); "Towards a More Robust Adaptation of the
	Ensemble Kalman Filter for Data Assimilation and Uncertainty Quantification in
	Reservoir Management Applications"
09:15-09:45:	Andrey Kovalenko (CIPR): "Approximate distribution of the EnKF sampling
	error"
09:45-10:00:	Break Break
10:00-10:45:	Elana Fertig (Johns Hopkins University)
10:45-11:15:	Olwijn Leeuwenburgh, Elisabeth Peters and Frank Wilschut, (TNO): "Using the
	EnKF for Structural Reservoir Model Updating by Assimilation of Time-Lapse
	Seismic Data
11.15-11.45:	Svetlana Losa, Jens Schröter, Sergey Danilov, Lars Nerger, Tijana Janji• (Alfred
	Wegener Institute for Polar and Marine Research (AWI)) and Frank Janssen
	(German Maritime and Hydrographic Agency (BSH)): "Implementing SEIK filter
	for NOAA SST data assimilation into BSH operational circulation model for the
	North and Baltic Seas: Inference about the model and data.
11:45-12:45:	Lunch
13:15-22:30:	Cultural arrangement
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Wednesday 22/06/2011:

08:15-09:00:	Milija Zupanski (Colorado State University); "A control theory approach to
09:00-09:30:	nonlinearity and non-differentiability in ensemble data assimilation" M. Glegola, P. Ditmar, TU Delft, R.G. Hanea (TNO/TU Delft), F. Vossepoel, (Shell Int. Expl. and Prod. BV), R. Arts (TNO), O. Eiken (Statoil): "History matching of a gas field model with gravity and production data using an ensemble smoother: a numerical study"
09:30-10:00:	Alin Chitu, Elisabeth Peters, Frank Wilschut, and Remus Hanea: "A kernel based EnKF history matching for a 3D, 3 phase, realistic case"
10:00-10:15:	Break Break
10:15-10:45:	Leonid Grigoriev, Alexander Ermolaev, Nikolay Kazakov (Gubkin Univ. Moscow): "Localisation of ensemble mean at analyze step in EnKF algorithm"
10:45-11:15:	Andreas S. Stordal (IRIS), Hans A.Karlsen (UiB), Geir Nævdal (IRIS), Dean S.Oliver (CIPR), Hans J. Skaug (UiB): "Multimodal posterior distributions: a local Kalman Gain approach"
11:15-11:45:	Pavel Sakov (NERSC, Mohn-Sverdrup Center and CSIRO): "Iterative EnKF for strongly nonlinear systems"
11:45-12:45:	Lunch
12:45-13:30:	Peter Jan van Leeuwen (University of Reading); "Particle filters in high-dimensional geophysical systems"
13:30-14:00:	Oliver Pajonk, Bojana Rosic, Alexander Litvinenko, Hermann G. Matthies (TU Braunschweig): "An Abstract View on Random Variable Representation and its Consequences"
14:00-14:30:	Inge Myrseth, (The Norwegian Computing Center) and Jon Sætrom (Statoil): "Cross Validation and Bootstrapping for improved Kalman Gain estimates."
14:30-14:45 :	Break Break
14:45-15:15:	Pallav Sarma, (Chevron), Jincong He and Louis Durlofsky (Stanford University): "Use of Reduced-order Models for Improved Data Assimilation within an EnKF Context"
15:15-15:45:	Remus Hanea , Christian Maris, and Ali Vakili (TNO): "Different distance based reparameterization for a history matching application with the EnKF"
15.45-16.15:	Laurent Bertino (1), Pavel Sakov (1,2), and Francois Counillon(1) (1) NERSC, Mohn-Sverdrup Center, Bergen, Norway, (2) CSIRO, Hobart, Australia: "The TOPAZ ocean and sea ice pilot reanalysis (2003 -2008)"
<mark>16.15: </mark>	Concluding remarks

Speaker's name written in Boldface

Posters:

- Hajoon Song, Ibrahim Hoteit, Bruce Cornuelle and Aneesh Subramanian (King Abdullah University of Sciences and Technology, KAUST, Thuwal, KSA): "An Adjoint-Based Adaptive Ensemble Kalman Filter"
- Rolf Johan Lorentzen, Geir Nævdal and Ali Shafieirad (IRIS): "Estimating facies fields using the ensemble Kalman filter and distance functions – applied to shallow-marine environments"
- 3. **Yan Chen** (IRIS) and Dean Oliver (CIPR): "Multiscale Parameterization and Localization for Improved data assimilation in EnKF"
- 4. Garfield Bowen, **Thomas Dombrowsky** (Schlumberger): "Principal Component Analysis and the Ensemble Kalman Filter A Comparison"
- 5. **Yuanyuan Shuai**, Christopher D. White, Ting Sun, Shannon Chalet and Juan M. Lorenzo (Louisiana State University): "Ensemble Kalman Filter with adaptive updating, and application to a meter-scale physical model"
- 6. **Bogdan Sebacher**, Remus Hanea and Arnold Heemink (TNO): "EnKF for estimating "the probability" of occurrence of the facies at a certain location"
- 7. **Tijana Janjic Pfander** (Alfred Wegener Institute for Polar and Marine Research). "Domain localization in ensemble based Kalman filter algorithms"
- 8. Lars Nerger (Alfred Wegener Institute for Polar and Marine Research (AWI)): "A regulated localization method for ensemble-based Kalman filters"