<table>
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<tr>
<th>Time</th>
<th>Session 1 – Turbulence observations in the ocean or in the lab</th>
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</table>
| 09:00 - 10:10 | **Keynote: W. Smyth**  
Marginal instability and deep cycle turbulence in the equatorial Pacific cold tongue  
Oregon State University  
USA |
| 10:10 - 10:30 | 010 Bluteau C., Ivey G., Jones N.L., Rayson M.D.  
Acquiring turbulence observations in oceanic stratified-sheared flows  
University of Western Australia  
Australia |
| 10:30 - 10:50 | 116 Liu Z.  
Fission of internal solitary waves over shoaling topography cascades tidal energy to turbulence  
Xiamen University  
China |
| 10:50 - 11:10 | 82 Schultze L., Merckelbach L., Carpenter J.  
Shallow stratified shelf sea turbulence and mixing rates measured by autonomous underwater gliders  
Helmholtz-Zentrum Geesthacht  
Germany |
| 11:10 - 11:30 | Coffee break |
| 11:30 - 11:50 | 067 Passaggia P.-Y., White B., Scotti A.  
Shear-driven mixing at high buoyancy Reynolds numbers  
University of North Carolina Chapel Hill  
USA |
| 11:50 - 12:10 | 036 Ghasemi A., Will A., Harlander U.  
Mean flow generation by an intermittently unstable boundary layer over a sloping wall  
Brandenburgische Technische Universität Cottbus-Senftenberg  
Germany |
| 12:10 - 14:00 | Break |
| 14:00 - 14:20 | 035 Fer I., Bosse A., Ferron B., Bouruet-Aubertot P.  
The dissipation of kinetic energy in the Lofoten Basin Eddy  
University of Bergen  
Norway |
| 14:20 - 14:40 | 080 Scheifele B., Waterman S., Carpenter J.  
Turbulent Dissipation Rates, Mixing, and Heat Fluxes in the Canadian Arctic from Glider-based Microstructure Measurements  
University of British Columbia  
Canada |
| 14:40 - 15:00 | 051 Lenn Y.-D., Silvester J., Polton J., Morales Maqueda M.  
Turbulent cooling of a UCDW eddy on the Antarctic continental slope  
Bangor University  
UK |
Ocean mixing beneath Pine Island Glacier ice shelf, West Antarctica  
Nansen Environmental and Remote Sensing Center and Bjerknes Centre for Climate Research  
Norway |
Evolution of turbulence in a rotating gravity current descending on a topographic slope  
Leibniz-Institute for Baltic Sea Research  
Germany |
| 15:40 - 16:00 | Coffee break |
| 16:00 - 16:20 | 075 Rippeth, T.P., Moum J.  
Do observations adequately resolve the natural variability of oceanic turbulence: Revisited  
Bangor University  
UK |
| 16:20 - 16:40 | 034 Evans D.G., Hemsley V., Frajka-Williams E., Martin A., Painter S., Naveira Garabato A.  
Estimating turbulence from Seagliders  
University of Southampton  
UK |
| 16:40 - 17:00 | 017 Caldeira R., Gomiz-Pascual J., Reis J.  
Seamount induced turbulent mixing and their biological entrapment  
OOM/ARDITI  
Portugal |
| 17:00 - 17:20 | 058 McMillan J., Hay A., Lueck R., Wolk F.  
Measurements of the Rate of Dissipation of TKE in a High Reynolds Number Tidal Channel Using ADCPs and Shear Probes  
Dalhousie University  
Canada |
<p>| 17:20 - 20:00 | Ice Breaker party |</p>
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<th>Time</th>
<th>Session 2- Modeling of Ocean Turbulence</th>
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| 09:00 - 09:40 | **Keynote: Alberto Scotti**  
Energy and mixing in stratified turbulent flows  
UNC, Marine Sciences USA |
| 09:40 - 10:00 | 091 Tailleux R.  
Mathematical versus physical constraints on ocean mixing parameterisations  
University of Reading UK |
| 10:00 - 10:20 | 061 Morel Y., Gula J., Ponte A.  
New integral properties for Potential Vorticity and applications to the ocean dynamics  
CNRS/LEGOS France |
| 10:20 - 10:40 | 095 Thomas J., Buhler O., Smith S.  
Wave-vortex interactions in rotating shallow water  
Courant Institute of Mathematical Sciences USA |
| 09:40 - 11:00 | Coffee break |
| 11:00 - 11:40 | 094 Taylor J.  
Large-eddy simulations of the interaction between sub-mesoscale eddies and three-dimensional turbulence  
University of Cambridge UK |
| 11:40 - 12:00 | 014 Brereton A., Tejada-Martinez A., Polton J.  
Mixing under internal tides: A Large-Eddy Simulation investigation  
National Oceanography Centre UK |
| 11:40 - 12:00 | 068 Penney J., Morel Y., Haynes P., Auclair F., Nguyen C.  
Influence of mixing on tracer evolution in stratified flows: theoretical aspects and numerical results.  
CNRS/LEGOS France |
| 12:00 - 12:20 | 027 Costa A., Doglioli A., Marsalaix P., Petrenko A.  
Comparison of in situ microstructure measurements to different turbulence closure schemes in a 3-D numerical ocean circulation model  
Mediterranean Institute of Oceanography (MIO) France |
| 12:20 - 14:00 | Break |
| 14:00 - 14:20 | 041 Hochet A., Tailleux R., Ferreira D., Kuhlbrodt T.  
Isoneutral control of effective diapycnal mixing in numerical ocean models with neutral rotated diffusion tensors  
University of Reading UK |
| 14:20 - 14:40 | 019 Chavanne C., Klein P., Sasaki H.  
Diagnosing the Upper Ocean 3D Circulation from High-Resolution Surface Data in a Realistic Simulation of the North Pacific Ocean  
ISMER-UQAR Canada |
| 14:40 - 15:00 | 071 Polton J., Guihou K., Brereton A., Luneva M.  
Pycnocline Mixing is Seasonally Stratified Shelf Seas  
National Oceanography Centre UK |
| 15:00 - 15:20 | 021 Chu P.  
Hilbert-Huang Transform to Estimate Turbulent Diffusion Coefficient from Lagrangian Drifter Trajectory  
Naval Postgraduate School USA |
| 15:20 - 16:00 | Coffee break |
| 16:00 - 16:20 | 090 Stashchuk N., Vlasenko V., Inall M.E., Aleynik D.  
Horizontal dispersion in shelf seas: high resolution modelling as an aid to sparse sampling  
University of Plymouth UK |
| 16:20 - 16:40 | 106 Vlasenko V., Stashchuk N., Nimmo-Smith A., Howell K.  
North Atlantic water overflow through the Wyville Thomson Ridge: Observational evidence and numerical modelling  
University of Plymouth UK |
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<th>Time</th>
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| 09:00 - 09:40 | **Keynote: Dirk Olbers**  
09:00 - 09:40  
09:40 - 10:00  
10:00 - 10:20  
10:20 - 10:40  
10:40 - 11:00 | Internal gravity waves as mediator of mixing and drag in the ocean circulation  
032 Domina A., Palmer M., Sharples J., Vlasenko V., Stashchuk N., Green M.  
006 Bartello P.  
108 Wain D.  
11:00 - 11:20 | Alfred Wegener Institute  
Germany  
University of Liverpool  
UK  
McGill University  
Canada  
University of Bath  
UK  
Institut für Meereskunde, Universität Hamburg  
Germany  
University of Cambridge  
UK  
Scripps Institution of Oceanography/UC San Diego  
USA  
University of Bath  
UK  
Stanford University  
USA  
University of Washington  
USA  
Scripps Institution of Oceanography/UC San Diego  
USA  
University of Bath  
UK  
University of Washington  
USA  
Hamburg University  
Germany  
Laboratory of Dynamical Meteorology, Ecole Normale Superieure, Paris  
France  
University of Bath  
UK  |
| 11:00 - 11:20 | **Coffee**  
11:20 - 11:40  
11:40 - 12:00 | Gravity wave emission from balanced flow en route to turbulence  
The Effects of Turbulent Viscosity on Frontogenesis and Diffusion  
Turbulence induced by overturning breaking waves: from small scale mixing to large scale overturning circulation  
020 Chouksey M., Eden C., Brüggemann N.  
028 Crowe M.N., Taylor J.R.  
057 Mashayek A., Alford M.H., Caulfield C., Peacock T.  |
| 12:00 - 14:00 | **Break**  
14:00 - 14:40 | **Keynote: Jacques Vanneste**  
14:00 - 14:40  
14:40 - 15:00  
15:00 - 15:20  
15:20 - 16:00 | Stimulated loss of balance and other mechanisms of wave–turbulence interactions  
063 Nadiga B.  
070 Pollmann F., Nycander J., Eden C., Olbers D.  
113 Zeitlin V., Gouzien E., Lahaye N., Dubos T.  |
| 16:00 - 16:20 | **Coffee**  
16:20 - 16:40 | How does internal tide generation vary in the horizontal?  
Instabilities of vortices in thermal rotating shallow water model, and their nonlinear saturation  
070 Pollmann F., Nycander J., Eden C., Olbers D.  
113 Zeitlin V., Gouzien E., Lahaye N., Dubos T.  |
| 19:00 - 22:30 | Colloquium Dinner: "Crowne Plaza Hotel" - 19:00: Reception at Crowne Plaza Hotel - 20:00: Dinner at Crowne Plaza Hotel  
Wednesday, May 24th, 2017  
Coffee  
Break  
Coffee  
Keynote: Jacques Vanneste  
Stimulated loss of balance and other mechanisms of wave–turbulence interactions  
063 Nadiga B.  
070 Pollmann F., Nycander J., Eden C., Olbers D.  
113 Zeitlin V., Gouzien E., Lahaye N., Dubos T.  
11:00 - 11:20  
11:20 - 11:40  
11:40 - 12:00 |
**Thursday, May 25th, 2017**

### Session 4 - Session: Turbulence in the surface and bottom boundary layers

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<th>Presenter(s)</th>
<th>Title</th>
<th>Institution</th>
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<tbody>
<tr>
<td>09:00 - 09:40</td>
<td>Keynote: Leif Thomas</td>
<td>Symmetric Instability (SI)-Turbulence: A Unique Form of Boundary Layer Turbulence</td>
<td>School of Earth, Energy and Environmental, Stanford University</td>
<td>USA</td>
</tr>
<tr>
<td>09:40 - 10:00</td>
<td>45 Johnson L., Lee C., D'Asaro E.</td>
<td>Submesoscale Turbulence in a Mixed Layer Front: Observations, Dynamics and Implications</td>
<td>Applied Physics Lab, University of Washington</td>
<td>USA</td>
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<tr>
<td>10:00 - 10:20</td>
<td>39 Grisouard N., Fox M., Nijjer J.</td>
<td>Conservation laws and inertial-symmetric instability</td>
<td>University of Toronto</td>
<td>Canada</td>
</tr>
<tr>
<td>10:20 - 10:40</td>
<td>15 Buckingham C., Lucas N., Naveira Garabato A., Rippeth T., Yu X., Belcher S.</td>
<td>Submesoscale instabilities and enhanced dissipation at ocean fronts</td>
<td>British Antarctic Survey</td>
<td>UK</td>
</tr>
<tr>
<td>10:40 - 11:00</td>
<td>Coffee</td>
<td></td>
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<tr>
<td>11:00 - 11:20</td>
<td>53 Liu G., Perrie W.</td>
<td>Underwater Glider Measurements and Simulations of Storm-Induced Abrupt Upper Ocean Mixing</td>
<td>Dalhousie University</td>
<td>Canada</td>
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<tr>
<td>11:20 - 11:40</td>
<td>74 Reichl B., Hallberg R., Griffies S., Adcroft A., Li Q., Fox-Kemper B.</td>
<td>An Energetically Constrained Ocean Surface Boundary Layer Parameterization including Surface Wave Effects for Climate Applications</td>
<td>Princeton University/NOAA GFDL</td>
<td>USA</td>
</tr>
<tr>
<td>11:40 - 12:00</td>
<td>119 Yu X., Naveira Garabato A., Martin A., Buckingham C., Brannigan L.</td>
<td>The Annual Cycle of Upper-Ocean Potential Vorticity and its Relationship with Submesoscale Instabilities: Insights from Mooring Observations</td>
<td>University of Southampton</td>
<td>UK</td>
</tr>
<tr>
<td>12:00 - 12:20</td>
<td>89 Soloviev A., Dean C., Lukas R., Donelan M., Terray E.</td>
<td>Langmuir cells and ramp-like structures in the upper ocean turbulent boundary layer</td>
<td>Nova Southeastern University</td>
<td>USA</td>
</tr>
<tr>
<td>12:20 - 14:00</td>
<td>Break</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>14:00 - 14:20</td>
<td>29 Cyr F., Buckley M., van der Lee E., Lappe C., van Haren H., Umlauf L.</td>
<td>High-resolution observations of wind-driven mixing in the Baltic Sea</td>
<td>Fisheries and Oceans Canada (DFO)</td>
<td></td>
</tr>
<tr>
<td>14:20 - 14:40</td>
<td>100 Umlauf L., Lappe C.</td>
<td>Boundary mixing in nontidal basins: Observations from the Baltic Sea</td>
<td>Leibniz-Institute for Baltic Sea Research</td>
<td>Germany</td>
</tr>
<tr>
<td>14:40 - 15:00</td>
<td>083 Schulz K., Endoh T., Umlauf L.</td>
<td>Slope-induced tidal straining: Analysis of rotational effects</td>
<td>NIOZ Netherlands Institute for Sea Research, The Netherlands</td>
<td></td>
</tr>
<tr>
<td>15:00 - 15:20</td>
<td>103 Venayagamoorthy S.K.</td>
<td>Prediction of turbulent diapycnal mixing in density stratified flows</td>
<td>Colorado State University</td>
<td>USA</td>
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**Poster Session with free beer and coffee**
### Session 5 - Turbulence and the marine ecosystem

**Friday, May 26th, 2017**

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<th>Time</th>
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<tr>
<td>09:00 - 09:40</td>
<td><strong>Keynote:</strong> Peter J.S. Franks</td>
<td>Oceanic turbulence from a plantonic perspective</td>
<td>Scripps Institution of Oceanography, USA</td>
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<tr>
<td>09:40 - 10:00</td>
<td>102 Variano E., Pujara N., Bordoloi A.</td>
<td>Kinematics of non-spherical particles in turbulence: effect of size and shape</td>
<td>University of California, USA</td>
</tr>
<tr>
<td>10:00 - 10:20</td>
<td>111 Yamazaki H., Mandal S., Takeuchi M., Homma H., Tanaka M.</td>
<td>Oceanic turbulence and highly intermittent phytoplankton dynamics</td>
<td>Tokyo University of Marine Science and Technology, Japan</td>
</tr>
<tr>
<td>10:20 - 10:40</td>
<td>92 Takeuchi M., Doubell M., Jackson G., Yamazaki H.</td>
<td>Turbulence controls size distribution of aggregates: in-situ observations by a microstructure profiler and a cabled observatory</td>
<td>Tokyo University of Marine Science and Technology, Japan</td>
</tr>
<tr>
<td>10:40 - 11:00</td>
<td>Coffee</td>
<td></td>
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<tr>
<td>11:00 - 11:20</td>
<td>104 Villamaña M., Mouriño-Carballido B., Marañón E., G. Figueiras F., Otero-Ferr J.-L., Reguera B.</td>
<td>What is the role of mixing in controlling microphytoplankton community composition?</td>
<td>Universidade de Vigo, Spain</td>
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<tr>
<td>11:20 - 11:40</td>
<td>93 Tanaka M.</td>
<td>Flow-limited diurnal vertical migration</td>
<td>Tokyo University of Marine Science and Technology, Japan</td>
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<tr>
<td>11:40 - 12:00</td>
<td>30 Dean C., Soviev A.</td>
<td>Bioturbulence Produced by Diel Vertical Migration of Zooplankton</td>
<td>Nova Southeastern University, USA</td>
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<td>12:00 - 12:20</td>
<td>54 Luneva M., Wakelin S., Palmer M.</td>
<td>Assessment of the impact of the turbulence closure schemes on the nutrient availability in shelf sea models.</td>
<td>National Oceanography Centre, UK</td>
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<tr>
<td>12:20 - 14:00</td>
<td>Break</td>
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<td>14:00 - 14:20</td>
<td>77 Ruiz Villarreal M., García-Garcia L.M., Marta-Almeida M., Mouriño-Carballido B., Cobas M.</td>
<td>Turbulence and mixing in the NW Iberian shelf in response to upwelling events</td>
<td>Instituto Español de Oceanografía (IEO), Spain</td>
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<td>14:20 - 14:40</td>
<td>76 Renosh P.R., Schmitt F.G., Loisel H.</td>
<td>Multiscale analysis of ocean color turbulent heterogeneities: comparisons of SST and Chl-a multifractal properties using 2D structure functions</td>
<td>Conservatoire National des Arts et Métiers, Laboratoire CEDRIC, France</td>
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<td>14:40 - 15:00</td>
<td>8 Bettencourt J., Rossi V., Garçon V., Haynes P., Morel Y.</td>
<td>Impact of submesoscale turbulence in dissolved O2 in an upwelling system</td>
<td>LEGOS, France</td>
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### Posters

#### Session 1 – Turbulence observations in the ocean or in the lab

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<tr>
<td>004</td>
<td>First turbulence observations in the southern Brazilian shelf</td>
<td>Ávila A. R., Calil P.H R.</td>
<td>Universidade Federal do Rio Grande</td>
<td>Brasil</td>
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<tr>
<td>011</td>
<td>Microstructure turbulence profiles at the Gibraltar Strait</td>
<td>Bolado-Penagos M., Gomiz-Pascual J.J., Vázquez A., Bruno M., Caldeira R.M.</td>
<td>Universidade de Cádiz</td>
<td>Spain</td>
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<td>013</td>
<td>Final-scale dynamics and energy dissipation of the Lofoten Basin Eddy measured by Seagliders</td>
<td>Bosse A., Fer I.</td>
<td>University of Bergen</td>
<td>Norway</td>
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<tr>
<td>023</td>
<td>A statistical look at ocean turbulence from high resolution Eulerian observations</td>
<td>Cimitaribus A., van Haren H.</td>
<td>EPFL</td>
<td>Switzerland</td>
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<td>025</td>
<td>Near-inertial waves in a Mid-ocean Deep Fracture Zone</td>
<td>Clement L., Thurnherr A.M.</td>
<td>EPF</td>
<td>USA</td>
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<tr>
<td>040</td>
<td>Preliminary comparison of microstructure data collected from Seaglider and Slocum glider platforms</td>
<td>Hall R.</td>
<td>University of East Anglia</td>
<td>UK</td>
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<tr>
<td>043</td>
<td>Fast-ice control of TKE dissipation rate on the West Antarctic Peninsula shelf</td>
<td>Inall M., Brearley A.</td>
<td>SAMS</td>
<td>UK</td>
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<td>049</td>
<td>Vertical structure of the turbulence intensity and power density in an asymmetrical tidal flow: the turbulence measurements in the Eastern English channel</td>
<td>Korotenko K., Sentchev A.</td>
<td>Shirshov Institute of Oceanology, Moscow</td>
<td>Russia</td>
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<td>066</td>
<td>Direct measurements of mixing efficiency from ocean mixing glider measurements</td>
<td>Palmer M.</td>
<td>NOC</td>
<td>UK</td>
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<tr>
<td>072</td>
<td>Fate of internal solitary waves in Manado Bay, Indonesia</td>
<td>Purwandana A.</td>
<td>LOCEAN</td>
<td>France</td>
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<td>079</td>
<td>A Modification to the Structure Function Method to Correct for the Impact of Wave Orbital Velocity Shear</td>
<td>Scannell B.</td>
<td>Bangor University</td>
<td>UK</td>
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<td>081</td>
<td>Comparisons between transect and fixed point measurements in an oceanic turbulent flow: comparisons between intermittency parameters</td>
<td>Schmitt F.</td>
<td>CNRS, Laboratory of Oceanology and Geosciences</td>
<td>France</td>
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<td>087</td>
<td>Regional dynamics influence on small-scale mixing in the boundary current regions of the North Western Mediterranean and the northwestern Japan Sea</td>
<td>Shatrain A. and Ostrovskii A.</td>
<td>Shirshov Institute of Oceanology</td>
<td>Russia</td>
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<tr>
<td>105</td>
<td>Characterisation of mixing efficiency from microstructure measurements in the Sicily Channel</td>
<td>Vladoiu A., Bouruet-Aubertot P., Cuypers Y., Ferron B., Schroeder K., Borghini M., Bryden H., Ben Ismail S.</td>
<td>L'OCEAN UPMC, Paris</td>
<td>France</td>
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<tr>
<td>115</td>
<td>A preliminary study of small scale turbulence and its association with (sub-) mesoscale processes in the Denmark Strait overflow plume</td>
<td>Kritselalakis S.</td>
<td>Alfred-Wegener-Institute for Polar and Marine Research</td>
<td>Germany</td>
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<td>117</td>
<td>Regimes of oceanic turbulence in the Western Mediterranean represented by satellite data</td>
<td>Karimova S.</td>
<td>University of Liege</td>
<td>Belgium</td>
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<td>120</td>
<td>Turbulent dissipation at the western boundary of the Atlantic in an eddy</td>
<td>Frajka-Williams E.</td>
<td>University of Southampton</td>
<td>UK</td>
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#### Session 2 - Modeling of Ocean Turbulence

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<tr>
<td>018</td>
<td>Multi-scale modeling of instabilities, internal waves and turbulence with SOMAR-LES</td>
<td>Chalamalla V.K., Santilli E., Scotti A., Sarkar S.</td>
<td>University of North Carolina Chapel Hill</td>
<td>USA</td>
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<tr>
<td>022</td>
<td>Lake Geneva as a natural laboratory for coastal transport processes</td>
<td>Cimitaribus A., Lemmin U., Reiss R., Barry A.</td>
<td>EPFL</td>
<td>Switzerland</td>
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<tr>
<td>031</td>
<td>Using the age to diagnose the evolution of turbulence kinetic energy and, possibly, other variables unrelated to the concentration of a constituent</td>
<td>Deleersnijder E., Burchard H., Delandmeter P., Delhez E.J.M., Hanert E., Mouchet A., Umlauf L.</td>
<td>Université catholique de Louvain</td>
<td>Belgium</td>
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<tr>
<td>047</td>
<td>A numerical study of wind and tidal mixing in Maryland Coastal Bays</td>
<td>Kang X., Xia M.</td>
<td>University of Maryland Eastern Shore</td>
<td>USA</td>
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<td>059</td>
<td>The impact of advection schemes on restratification due to lateral shear and baroclinic instabilities</td>
<td>Mohammadi Aragh M., Klingbeil K., Brüggemann N., Eden C., Burchard H.</td>
<td>Alfred Wegener Institute</td>
<td>Germany</td>
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<tr>
<td>069</td>
<td>Direct numerical simulation of Rayleigh-Taylor instabilities subject to double-diffusion</td>
<td>Penney J., Stastna M.</td>
<td>LEGOS</td>
<td>France</td>
</tr>
<tr>
<td>097</td>
<td>The role of barotropic to baroclinic tidal energy conversion: a view towards improved turbulent mixing parameterisation in shelf seas</td>
<td>Toberman M., Inall M., Polton J., Pelling H., Palmer M., Rippeth T.</td>
<td>The Scottish Association for Marine Science</td>
<td>Scotland</td>
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**Session 3 - Interaction of turbulence with internal gravity waves and balanced flow**

024  Clary J., Chavanne C., Nadeau L.-P.  Is it possible to estimate KE transfers from HF radar?  UQAR-ISMER

085  Senior N.  On the Relationship Between Turbulent Cascades and Eddy Tilts  University of East Anglia UK

007  Basdurak N.B., Burchard H.  Submesoscale turbulence in the surface boundary layer: Fronts  Leibniz Institute for Baltic Sea Research Germany

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**Session 4 - Turbulence in the surface and bottom boundary layers**

052  Liang C-R, Shang X-D, Chen G-Y  Spatial distribution of turbulent mixing in the upper ocean of the South China Sea  South China Sea Institute of Oceanology, Chinese Academy of Sciences China

062  Morvan M., Carton X., L'Hegaret P.  The generation of submesoscale eddies and of turbulence by a row of mesoscale surface eddies in the Sea of Oman  LOPS/IUEM, UBO, Brest France

098  Toorman E., Ouda M.  Marine turbulence in nearshore and surfzone areas  KU Leuven Belgium

099  Troy C., Cannon D.  Benthic turbulence in the deep waters of a large lake  Purdue University USA

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**Session 5 - Turbulence and the marine ecosystem**


046  Jung H., Jang C.J., Kang H-W  Effects of vertical mixing on low trophic ecosystem in the Ulleung Basin, East Sea  Korea Institute of Ocean Science & Technology Korea

055  Maneeesh T.P., Smitha B.R.  Mesoscale Eddy Induced Nutrient pumping and its Biological Response in the North Eastern Arabian Sea during Winter-Spring Transition  Cochin University of Science and Technology, Kochi India

073  Reale M., Solidoro C., Giorgi F., Di Biagio V., Mariotti L., Farneti R.  Preliminary results over the Med-CORDEX domain of a new high resolution Regional earth system model with an active biogeochemical component  ICTP (Trieste, Italy)-OGS (Trieste, Italy) Italy

096  Tippenhauer S., Wulff T., Von Appen W.J.  AUV based study on physical and ecological processes at fronts  Alfred Wegener Institute for Polar and Marine Research, Bremerhaven Germany

110  Xia M., Jiang L.  How climate changed driven turbulent mixing impact the water quality dynamics: A case study in Chesapeake Bay, USA  University of Maryland Eastern Shore USA

121  Ivanov E., Capet A., Barth A., Delhez E., Soetaert K., Grégoire M.  3D hydrodynamical modelling of the Southern Bight of the North Sea: first achievements and perspectives  MAST, University of Liège Belgium