

## Theme Session on Oil Spills in Marine Ecosystems: Impacts and Remediation (S)

Conveners: Joan Albaigés, Spain and Kenneth Lee, Canada

### Agenda and Order of the Day

Tuesday 20 September 11.30–18.00 (Gordon A Room)

		<b>Time</b>
<b>1.</b>	<b>Opening</b>	11.30
<b>2.</b>	<b>Introduction</b>	–11.40
<i>Code</i>	<i>Author(s) and title</i>	
S:10	<i>Lucía Viñas, Ángeles Franco, José-Antonio Soriano, and Juan-José González:</i> PAH levels and evolution in water, sediments and biota after the “Prestige” oil spill	11.40–12.10
S:06	<i>Concepción Martínez-Gómez, J.A. Campillo, J. Benedicto, B. Fernández, J. Valdés, I. García, and F. Sánchez:</i> Biomarker responses in demersal fish from the northern Iberian shelf: Results one year after the “Prestige” oil spill	12.10–12.30
	<b>Lunch break</b>	12.30–13.30
S:13	<i>Robin Law, Carole Kelly, Patrick Roose, Jacek Tronczynski, Lucía Viñas, and Lynda Webster:</i> Assessing the long-term impact of oil spills: an examination of recent incidents	13.30–13.50
S:19	<i>Franck Laruelle and Ivan Calvez:</i> Oil spill monitoring : analysis of similarities and differences in approaches and methodologies	13.50–14.10
S:03	<i>F. Sánchez, A. Serrano, F. Velasco, S. Parra, and I. Frutos:</i> Monitoring the “Prestige” oil spill impacts on northern Iberian shelf ecosystem	14.10–14.30
S:05	<i>I. Olaso, F. Velasco, and I. Preciado:</i> Seasonal variability of predator fish trophic levels before and after the “Prestige” oil spill	14.30–14.50
S:11	<i>A. Punzón, Trujillo, V., Abad, E., Pampillón, C., Velasco, F., Abaunza, P. Villamor, B., Perez, N., and Hernández, C.:</i> Fisheries and “Prestige”. Review and updated of the studies about the effects of the “Prestige” oil spill	14.50–15.10
S:14	<i>J.C. Mendes, D.G. Johns, and A.J. Richardson:</i> Assessing the impact of oil spillages on plankton using the Continuous Plankton Recorder (CPR) survey	15.10–15.30
	<b>Coffee break</b>	15.30–16.00
S:15	<i>Núria Jiménez, Sergi Díez, Jordi Sabaté, Marc Viñas, Josep M. Bayona, Joan Albaigés, and Anna M. Solanas:</i> Enhanced biodegradation of the “Prestige” fuel oil: laboratory and field observations	16.00–16.20
S:09	<i>Kenneth Lee, Albert D. Venosa, and Francois Xavier Merlin:</i> Marine oil spill bioremediation: field studies for development of operational spill response strategies	16.20–16.40

S:17	<i>Hideaki Maki, T. Hiwatari, K. Kohata, and M. Watanabe:</i> Crude oil bioremediation field experiment at a shore in the Sea of Okhotsk in Hokkaido, Japan	16.40–17.00
S:08	<i>S.D. Rice, J.W. Short, M.R. Lindeberg, R.A. Heintz, B.E. Ballachey, and J.L. Bodkin:</i> “Exxon Valdez” oil spill: PAH persistence in intertidal sediments, bioavailability, and long-term effects	17.00–17.20
S:07	<i>Ron A. Heintz:</i> Chronic exposure to polynuclear aromatic hydrocarbons in natal habitats leads to decreased productivity and fitness in pink salmon populations	17.20–17.40
S:04	<i>R. A Sueiro, S. Suárez, M. Araujo, and M. J. Garrido:</i> Effects of bioremediation on mutagenicity of fuel oil coming from the “Prestige” spill: <i>in situ</i> experiments in Sorrizo’s Beach (NW Spain)	17.40–18.00

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### Agenda and Order of the Day

Wednesday 21 September 09.00–10.00 (Gordon A Room)

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| S:01 | <i>Robin Law, Carole Kelly and Kevin Colcomb:</i> Opportunities for at-sea response and beach clean-up to reduce the impact of oil spills: examples from the “Sea Empress” incident   | 9.00–9.15  |
| S:12 | <i>S., Kuikka, T. Lecklin, T. Juntunen, M. Rahikainen, K. Vainio-Mattila, T. Rosqvist, K. Jolma, A. Mäkinen, J. Ikävalko, J. Mattila, and A. Aalto:</i> Use of biological life history, genetic, and vulnerability information to optimize oil combating technologies | 9.15–9.30  |
| S:20 | <i>Manuel González, Ad. Uriarte, R. Pozo, M. Collins, and L. Ferrer:</i> The “Prestige” crisis: Operational oceanography applied to oil recovery by the Basque fishing fleet and the study of the long-term environmental impacts                                     | 9.30–9.45  |
| S:02 | <i>T. Juntunen, T. Rosqvist, S. Kuikka, and J. Rytönen:</i> How to model the oil combating technologies and their impacts on ecosystem: a Bayesian networks application in the Baltic Sea   | 9.45–10.00 |

### Posters

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| S:21 | <i>Lucía Viñas, Ángeles Franco, José-Antonio Soriano, Inmaculada Alves, Jessica Bargiela, and Juan-José González:</i> Evolution of the PAH content in commercial shellfish from Galicia (NW Spain) after the “Prestige” oil spill            |  |
| S:22 | <i>Esther Abad, J. M. Bellido, A. Punzón, N. Pérez, and M. A. Ámez:</i> Analysis of the Spanish trawl fleet spatial distribution during and post-“Prestige” oil spill by GIS simulations and real data                                       |  |
| S:23 | <i>J. H. Pedersen and T. Kristiansen:</i> Degradation of oil with regard to the Barents Sea  |  |
| S:24 | <i>Stephen O'Neill and Ian. M. Davies:</i> Microbial detection of hydrocarbon contamination in fish  |  |
| S:25 | <i>I. Olaso, B. Villamor, F. Velasco, J.L. Gutiérrez-Zabala, and I. Preciado:</i> May the “Prestige” oil spill have affected mackerel trophic structure?   |  |
| S:26 | <i>Victoriano Valencia, Ángel Borja, Iñigo Muxika, and Andrea del Campo:</i> Medium-term monitoring of polycyclic aromatic hydrocarbons in mussels of the estuaries of the Basque coast (NE Spain) following the “Prestige” oil spill        |  |
| S:27 | <i>Z. Chen, K. Lee, and S. Sultana:</i> Oil fate during oil spills in the marine environment – mathematical modeling and future needs  |  |
| S:28 | <i>J. S.-Landaluze, L. Bartolome, O. Zuloaga, and C. Cámara:</i> A fast and simple extraction procedure for polycyclic aromatic hydrocarbons in marine biota: Application to mussel samples from Cantabrian coast after “Prestige” oil spill |  |
| S:29 | <i>Antonio Bode, Nicolás González, Jorge Lorenzo, Joaquin Valencia, Manuel Varela, and Marta M. Varela:</i> Bacterioplankton activity off A Coruña (Galicia, NW Spain) after the “Prestige” oil spill in November 2002                       |  |
| S:30 | <i>Niranjan Deshpande, Subhashini Chandrasekar, George A. Sorial, and James W. Weaver:</i> Dispersant effectiveness on oil spills – impact of environmental factors  |  |

- S:31 *Elsa Vázquez, Milagros Penela-Arenaz, Gonzalo Macho, and Esther Pérez-Fernández:* Recruitment of cirripeds after “Prestige” oil spill on rocky shores of Galicia (NW Iberian Peninsula)
- S:32 *J.A. Soriano-Sanz, M.A. Franco Hernández, L. Viñas-Diéguez, B. Cambeiro-Cambeiro, J. Bargiela-Barros, C. González-Castro, and J.J. González-Fernández:* Polycyclic Aromatic Hydrocarbons (PAHs) levels in cultivated and wild mussels from a Galician site (NW Spain) affected by the “Prestige” oil spill
- S:33 *Victoria Besada, Fernando Schultze, José Antonio Soriano, Lucia Viñas, Ángeles Franco, Bruno Cambeiro, and Juan José González:* Levels and evolution of V, Ni and PAHs in mussels after the “Prestige” oil spill
- S:34 *Luís González, Gema Martínez, Rebeca Lago, and Jesús Torres:* Evaluation of the impact of the “Prestige” oil spill using remote sensing and GIS techniques
- S:35 *Marie Russell, L. Webster, P. Walsham, G. Packer, E.J. Dalgarno, A.D. McIntosh, R. J. Fryer, and C.F. Moffat:* The composition and concentration of hydrocarbons in the East Shetland Basin oil exploration and production area
- S:37 *Iñigo Muxika, Víctor Valencia, and Ángel Borja:* Effects of “Prestige” oil spill upon subtidal soft-bottom macrobenthic communities in the Basque continental shelf
- S:38 *A. D. McIntosh and A. E. Craig:* Sensory assessment of hydrocarbon taint in fish and shellfish from the North Sea
- S:39 *A. Craig, A. F. Zuur, R. J. Fryer, and I. M. Davies:* Performance of sensory assessment panels for the detection of petrogenic taint in fish
- S:40 *Abdulwaheed S. Ahmed, Lynda Webster, Ian M. Davies, Pat Pollard, Marie Russell, and Colin F. Moffat:* Distribution of hydrocarbons in the Fladen Ground
- S:41 *Carl Van Colen, M. Vincx, and S. Degraer:* Tidal flat macrobenthos resistance to medium-term emersion: the case of the “Tricolor” oil pollution prevention in the Zwin nature reserve (Belgium)
- S:42 *Ángeles Franco, Lucía Viñas, José-Antonio Soriano, Jessica Bargiela, Cristina González, and Juan-José González:* Concentrations of polycyclic aromatic hydrocarbons (PAHs) in sediments in Spanish Coast, one year after the “Prestige” fuel-spill