**DAY 1 - Monday SEPT 3, 2012**

**SEPT 3 – 8:00-9:00**

**REGISTRATION (EC-JRC Auditorium)**

**9:00 – 9:15**

**OPENING OF THE FIFTH INTERNATIONAL TSUNAMI SYMPOSIUM (ISPRA-21012) - George Pararas-Carayannis, President, Tsunami Society International)**

**9:15 – 9:30**

**WELCOMING ADDRESS 1: by Dr. Delilah Al Khudhairy (Global Security and Crisis Management Unit Head, EC-JRC)**

**9:30 – 9:45**

**WELCOMING ADDRESS 2 (Welcome and Logistical Arrangements)**

**Chairman, EC-JRC Organizing Committee (Alessandro Annunziato)**

**9:45 – 10:00 COFFEE BREAK**

**TECHNICAL SESSION 1**

**MONDAY SEPT 3– Morning**

**Tsunami Instrumentation and Warning Systems**

**Moderators: Alessandro Annunziato, Ocal Necmioglu**

**10:00 – 10:30**

**The French Tsunami warning center for the Mediterranean and North-East Atlantic CENALT**

**Pascal Roudil, François Schindelé, Rémy Bossu, Nicolas Alabrune, Patrick Arnoul, Pierre Duperray, Audrey Gailler, Jocelyn Guilbert, Hélène Hébert, Anne Loevenbruck**

**10:30 – 11:00**

**NOAA/NGDC Global Water-Level Data in Support of Tsunami Research and Global Ocean Monitoring**

George Mungov, Marie Eblé, Erica Harris, Richard Bouchard

**11:00 – 11:30**

**Early Detection of Near-field Tsunamis Using Underwater Sensor Networks**

**Taieb Znati, Mark Voortman, Xerandy, Louise Comfort**

**11:30 – 12:00**

**Hydroacoustics and Tsunami Data at the Comprehensive Nuclear-test-ban Treaty Organization**

M.K. Prior & S. Spiliopoulis

**12:00 – 13:30 LUNCH BREAK**

**MONDAY SEPTEMBER 3 – Afternoon Session**

**Tsunami Instrumentation and Warning Systems**

**(continued)**

**Moderators: G. Franchello, George Mungov**

**13:30 – 14:00**

**Challenging Tsunami Hazard – A National Example from Turkey**

**N. Meral Ozel, O. Necmioglu, D. Kalafat, M. Yilmazer, M. Comoglu, C. Gurbuz, M. Erdik, *A.C. Yalciner,* U. Sanli**

**14:00 – 14:30**

**Simulation systems for tsunami wave propagation forecasting within the French tsunami warning center**

**Audery Gailler, Hélène Hébert, Anne Loevenbruck and Bruno Hernandez**

**14:30 – 15:00**

**Tsunami Land Model (TLM) to Support Early Warning and Evacuation Decisions**

**Louise Comfort, Taieb Znati, Mark Voortman, Xerandy.**

15:00 – 15:15 COFFEE BREAK

**Tsunami Risk Analysis**

**Regional Studies**

**MODERATORS: Louise Comfort, Georgy Shevchenko**

**15:15 – 15:45**

**Evaluation of Potential Tsunami Generation along the Colombia/Ecuador Subduction Margin - Examination of Historical Tsunamis**

**George Pararas-Carayannis**

**15:45 – 16:15**

**Sustainable Environment and Tsunami Risk in the Algiers Bay (Algeria, Western Mediterranean)**

**L. Amir, W. Dudley, B. McAdoo**

**16:15 – 16:45**

**Method of assessment of vulnerability from tsunamis of low-to-medium intensity: Application to the Côte d'Azur South-East, France)**

**Monique Terrier, Daniel Monfort, Olivier Sedan, Sylvestre Leroy, Rodrigo Pedreros, Jérôme Lambert**

**16:45 – 17:15**

**TSUNAMI HAZARD ESTIMATION AND ZONATION SCHEME FOR**

**THE NORTHERN PART OF THE JAPAN SEA USING OBSERVATIONAL DATA**

**Victor Kaystrenko, Yuichiro Tanioka, Byung Ho Choi, Ho Jun Lee**

**CLOSURE OF SESSION – DAY 1**

**DAY 2 – Tuesday Sept 4, 2012**

**TUESDAY 4 SEPTEMBER 2012, Morning**

**SPECIAL SESSION 1. 2011 TOHOKU Earthquake/Tsunami**

**Moderators: Tomoya Shibayama; Dan Palermo**

**8:30 – 9:00**

**PLENARY PRESENTATION**

**Overview of the 11 March 2011 Earthquake and Tsunami in Japan – Lessons Learned - Assessment of Future Risks**

**George Pararas-Carayannis**

**9:00 – 9:30**

**Response of the GDACS system to the Tohoku Earthquake**

**A. Annunziato, G. Franchello, T. De Groeve**

**9:30 – 10:00**

**Tsunami Disaster of Tohoku Region Pacific Coast**

**Earthquake**  **and Future Coastal Protection Views in Japan**

**Tomoya Shibayama, Takahito Mikami**

**10:00 – 10:30**

**Tohoku tsunami of 11 March 2011 as recorded on the Russian Far East Coast**

**G.V. Shevchenko & T.N. Ivelskaya**

**10: 30 – 10:45 COFFEE BREAK**

**Tsunami Engineering**

**MODERATORS: Tad Murty, Dan Palermo**

**10:45 – 11:15**

**The 2011 Tohoku Tsunami - Tsunami Impact on Structures**

**I. Nistor**

**11:15 – 11:45**

**The scientific and human impacts of the Great Tohoku Earthquake on the greater Monterey Bay region**

**L. C. Breaker, T. S. Murty, D. Carrolland W. J. Teague**

**11:45 – 12:15**

**Numerical modeling of extreme hydrodynamic forces on structural elements**

I. Nistor and P. St-Germain

**12:15 – 13:30 LUNCH**

**TUESDAY SEPTEMBER 4 – Afternoon Session**

**Tsunami Engineering (continued)**

**13:30 – 13:45**

**Impact of Tsunami Forces on Structures: The University of Ottawa Experience**

D. Palermo, I. Nistor, T. Al-Faesly, A. Cornett

**Risk Evaluations/ Probabilistic Assessments**

**Moderators: G. Franchello; Victor Kaystrenko**

**13:45 – 14:15**

**A Monte Carlo Approach to Probabilistic Tsunami Hazard Assessment**

E.M. Lane & J.J. Mountjoy and W. Power

**14:15 – 14:45**

**Distribution Functions of Runup Heights of the 1896, 1933 and 2011 Japanese Tsunamis in the Sanriku Area: Applicability of Lognormal Distribution**

Efim Pelinovsky, Byung Ho Choi, Byung Il Min,Yoshinobu Tsuji, Kyeong Ok Kim

**14:45 - 15:15**

**TSUNAMI RECURRENCE FUNCTION, ITS STRUCTURE AND METHODS OF CREATION. APPLICATION FOR TSUNAMI HAZARD ESTIMATION**

**Victor Kaystrenko**

**15:15 – 15:45**

**A method for estimating tsunami risk along Russia’s Far East**

**G.V. Shevchenko, D. E. Zolotukhin, I. N. Tikhonov**

**15:45 – 16:00 COFFEE BREAK**

**Experimental / Numerical Modeling**

**Moderators: Efim Pelinovsky; R. Mazova**

**16:00 – 16:30**

**POSSIBLE CATASTROPHIC EARTHQUAKE AND GENERATED TSUNAMI IN THE KOMANDORSKIY SEISMIC GAP REGION OF THE WESTERN ALEUTIAN ARC**

**Mazova R. Kh. Baranov B.V., Dozorova K.A., Baranova N.A.**

**16:30 – 17:00**

**Validation of HyFlux2 tsunami propagation and inundation numerical code**

**N. Zamora, G. Franchello & A. Annunziato**

**17:00 – 17:30**

**Numerical modeling studies on tsunami propagation in the South East Arabian Sea (SEAS) and vulnerability analysis along the south-west coast of India**

**S. S. Praveen, N. P. Kurian, T. S. S. Hameed and K. B. Shafeer**

**CLOSURE OF SESSION – DAY 2**

**NO RETURN TRANSPORTATION TO HOTELS**

**17:30 – 17:45 TRANFER TO VISIT THE EC-JRC CRISIS ROOM**

**17:45 – 18:15 VISIT AND DEMONSTRATION OF CRISIS ROOM OPERATIONS**

**18:15 RETURN TO EC-JRC (no stop at hotels)**

**TUESDAY 4 SEPTEMBER 2012, EVENING 18:30**

**DIRECT TRANFER BY BUS AND BOAT FROM EC-JRC TO ATLANTIS RESORT AND RESTAURANT IN ARONA (on Lake Maggiore)**

**19:15 – 21:30**

**SOCIAL DINNER**

**(Awards Ceremony)**

**DAY 3 - Wednesday 5 Sept 2012, Morning**

**Remote Sensing**

**Moderators: G. Mastronuzzi; Monique Terrier**

8:30 – 9:00

Remote Sensing and GIS Contribution to the Inventory of Infrastructure susceptible to Earthquake and Tsunami Hazards - Demonstrated by Case Studies in Japan and Chile

Barbara Theilen-Willige and Helmut Wenzel

**9:00 – 9:30**

**Laser scanning techniques in the reconstruction of megaboulder geometry FOR THE ASSESSMENT OF FLOODING BY EXTREME WAVES**

A. Marsico, G. Mastronuzzi, C. Pignatelli, M. Milella & A. Piscitelli

**Tsunami Preparedness**

**Moderators: E. Lane, Monique Terrier**

**9:30 – 10:00**

**Tsunami hazard conditions for evacuation and refuge definition on French Mediterranean coast exposed to several tsunami sources**

**R. Guillande, T. Salaun, Gardi A.**

**10:00 – 10:30**

**Tsunami mitigation planning in Pacitan, Indonesia: a review of existing efforts and ways ahead**

**Abdul MUHARI, Matthias MUECK, Subandono DIPOSAPTONO & Harald SPAHN**

**10:30 – 10:45 COFFEE BREAK**

**10:45 – 11:15**

**TRIDEC Natural Crisis Management Demonstrator for Tsunamis**

**M. Hammitzsch , O. Necmioglu), S. Reißland, M. Lendholt , M. Comoglu), N.M. Ozel and J. Wächter**

**11:15 – 11:45**

**Contribution to the top-down alert system for the French Mediterranean coast: tsunami hazard assessment and support to the local Preparedness**

**Anne Loevenbruck, François Schindelé, Elise Quentel, Hélène Hébert**

11:45 – 12:15Land morphological changes caused by N-waves on a simple slope.

**Silvia Chacón-Barrantes**

**12:15 – 13:30 LUNCH**

**WEDNESDAY SEPTEMBER 5 – Afternoon Session**

**General Session / Tsunami Preparedness**

**(continued)**

**Moderators: Lubna Amir, Silvia Chacón-Barrantes**

**13:30 – 14:00**

**Early disaster relief responses to major catastrophes**

R. Bargen, MD

**14:00 – 14:30**

**Protection of tsunami in case can´t escape. Air bell shelter - Human capacity of survival**

**Carlos Luis Martín Fernández**

**14:30 – 15:00**

**Landslide tsunami in Russian rivers** (Poster Presentation)

**Irina Nikolkina, Ira Didenkulovaand Efim Pelinovsky**

**TSUNAMI/FLOOD SHELTER SYSTEM TO CLOSE THE GAP**

**OF CURRENT PREPAREDNESS STRATEGIES IN MOST VULNERABLE LOCATIONS**

**Miguel A. Serrano**

**Boulder deposits as evidence of past**

**tsunami events - introduction**

**to wave-induced boulder transport**

A. Strusińska, H.Oumeraci

**15:00 – 15:45 COFFEE BREAK**

**Special Session/Open Forum**

**Tsunami Safety of Nuclear Power Plants (NPPs)**

**(Moderators George Pararas-Carayannis / Rob Sewell /**

**Tomoya Shibayama)**

**15:45 – 16:15**

**Appointment of Rapporteur**

**Introductory Remarks for Discussion:**

**The Fukushima-Daichi nuclear disaster**

**Tsunami Safety Standards for NPPs**

**Nature and status of the ASME Standards (JCNRM -- Joint Committee on Nuclear Risk Management)**

**Tsunami and flooding risk standards for NPPs**

**Need for IAEA Tsunami Guidelines**

**Outcome of IAEA on nuclear safety training  course at the Institute of Theoretical Physics, June 2012, Trieste)**

**New studies initiated by USNRC on NPP safety**

**16:15 – 17:15**

**OPEN FORUM DICUSSSION**

**Appointment of Rapporteur / Discussion / Recommendations /Resolutions**

**17:15 – 17:30**

**CLOSING STATEMENTS**

**Tad Murty**

**Alessandro Annunziato**

**Dr. Delilah Al Khudhairy**

**George Pararas-Carayannis**

**CLOSURE OF 5TH INTERNATIONAL TSUNAMI SYMPOSIUM**

**Papers of scientists that could not attend**

**INDIAN SOUTHWEST COAST AND ITS VULNERABILITY**

**FOR TSUNAMI & TIDAL WAVE HITS WITH**

**REFERENCE TO GEOLOGICAL ENVIRONS**

**S. Rajendran** (unable to attend)

***The effects of recent tsunami***

***events for Chinese coast***

***Ruizhi Wen , Yefei Ren & Yuying Song*** *(unable to attend)*

***Probabilistic Tsunami Risk Assessment***

***in the NE Atlantic Area and its***

***Application to Tsunami Disaster Management***

***R. Omira, L. Matias, M. A. Baptista, C. Catita and F. Carrilho (unable to attend)***

**Risking Tsunami: Merging Hazards,**

**Vulnerabilities and Mitigations for Risk Reduction**

**Brian G. McAdoo (not able to attend)**

***Numerical modeling of the distant***

***tsunamis at the Far-East coast of Russia***

***Yuri I. Shokin, Sonya A. Beisel, Leonid B. Chubarov, Viacheslav K. Gusiakov*** *(unable to attend)*

*DETECTION & EARLY WARNING OF TSUNAMIS BY REMOTE SENSING Frank C. Lin, Weiwei Zhu and Kingkarn Sookhanaphibarn (unable to attend)*

***EARTHQUAKE PREDICTION BASED***

***ON SHORT TERM PRECURSOR EVENTS***

***Zhonghao Shou*** *(unable to attend*)