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**Joint Usage / Research Center “Leading Academia in Marine and Environment Pollution Research (LaMer)”**

**Center for Marine and Environmental Studies (CMES), Ehime University**

**Annual Report for 2017**



**Submitted by**

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**Title of conference****“19th International Symposium on Pollutant Responses in Marine Organisms” (PRIMO19)****30 June-3 July, 2017****List of presenter and their affiliation****Table.1. Metal Toxicology II Oral sessions:**

<b>Nos</b>	<b>Title of the presentation</b>	<b>Presenter name</b>	<b>Affiliation</b>
OP-21	Elemental organotropy in the worlds heaviest teleost – The cosmopolaitian ocean sunfish, <i>MOLA MOLA</i>	M. Baptista	Division of Environmental Oceanography and Bioprospection, IPMA – Portuguese Institute for sea and Atmosphere, Av.Brasilia, 1449-006 Lisboa, Portugal
OP-22	Toxicity of Metal and metal oxide nanoparticles to the Asian common Toad <i>Duttaphrynus Melanostictus</i>	Krishnamoorthi Vimalkumar	Department of Environmental Biotechnology, School Environmental Sciences, Bharathidasan University, Tiruchirappalli, Tamilnadu, India
OP-23	Metallothionein Expression in green mussel <i>Perna Viridis</i> effect of Metal Pollution	Yenny Risjani	BioEcotox, Central Laboratory of Life science, Universitas Brawijaya, Malang, Indonesia
<b>OP-24</b>	<b>Detection of metal induced cytopathological alteration and DNA damage in <i>Perna Viridis</i> from ennore estuary, Chennai</b>	<b>Ramaswamy Babu Rajendran</b>	<b>Department of Environmental Biotechnology, School Environmental Sciences, Bharathidasan University, Tiruchirappalli, Tamilnadu, India</b>

**Table.2. Environmental Issues in Developing Countries II – Oral session:**

<b>Nos</b>	<b>Title of the presentation</b>	<b>Presenter name</b>	<b>Affiliation</b>
OP-92	Analysis of pollutants cadmium (CD) at wangi river Pasuruan and its impact on <i>Gambusia Affinis</i>	Moh. Awaludin Adam	Doctoral Student at Fishries and marine sciences of Faculty, Brawijaya University, Veteran-65145, Malang, Indonesia
<b>OP-93</b>	<b>Distribution of synthetic musk and Benzotriazole Ultra Violet Stabilizers in organisms from Indian coastal waters</b>	<b>Ramaswamy Babu Rajendran</b>	<b>Department of Environmental Biotechnology, School Environmental Sciences, Bharathidasan University, Tiruchirappalli, Tamilnadu, India</b>
OP-94	Spatio-temporal trend of contamination by persistent organic pollutants in deep-sea ecosystems around Japan	Shin Takahashi	Center for Advanced Technology for the Environment (CATE), Graduate School of Agricultural Sciences, Ehime University, Matsuyama 790-8566, Japan

**Table.3. Environmental Issues in Developing Countries – Poster session**

<b>Nos</b>	<b>Title of the presentation</b>	<b>Presenter name</b>	<b>Affiliation</b>
P - 086	Phthalates occurrence in water and sediment of the Kaveri river, India and Ecotoxicological Assessment	Nikhil Nishikant Patil	Department of Environmental Biotechnology, School Environmental Sciences, Bharathidasan University, Tiruchirappalli, Tamilnadu, India
P – 87	Monitoring of Phenolic compounds in Rivers of Tamilnadu, India and Ecotoxicological risk assessment	Arun Elaiyaraja	Department of Environmental Biotechnology, School Environmental Sciences, Bharathidasan University, Tiruchirappalli, Tamilnadu, India
<b>P – 86</b>	<b>PCDD/Fs, DL – PCBs and PBDEs in the dumpsite soils of Tiruchirappalli town, south India</b>	<b>AN. Subramanian</b>	<b>Department of Environmental Biotechnology, School Environmental Sciences, Bharathidasan University, Tiruchirappalli, Tamilnadu, India</b>
P – 87	Pharmaceutical and Personal Care Products in fresh water fish from developing countries	Kazusa Nozaki	Centre for Marine and Environmental Studies, Ehime University, Japan
P – 88	Organohalogen compounds in serum of E-waste recycling workers in India	Yuhei Ogawa	Centre for Marine and Environmental Studies, Ehime University, Japan
P – 89	Catalase activity as potential biomarker in Asian seabass ( <i>Lates calcarifer</i> ) from Kelantan and Terengganu, Malaysia	Nik Nurasyikin Binti Mohammad Azmi	School of marine and Environmental sciences, Universiti Malaysia Terengganu, Malaysia
P – 90	Superoxidase dismutase and Gluthatione-S-Transferase as oxidative stress biomarkers in seabass from Kalantan and Terenffanu, Malaysia	Mohammad Sofi Bin Abu Hassan	School of marine and Environmental sciences, Universiti Malaysia Terengganu, Malaysia

**Aim:**

To attend the PRIMO19 to enrich the knowledge and to establish the network across the borders for research collaborations.

**Contents of Presentation, Result and Discussion:**

Prof. R.Babu Rajendran and Prof. AN. Subramanian were participated in the “**19th International Symposium on Pollutant Responses in Marine Organisms**” (PRIMO19). Dr.R.Babu Rajendran presented two oral presentations “**Detection of metal induced cytopathological alteration and DNA damage in *Perna Viridis* from ennore estuary, Chennai**” and “**Distribution of synthetic musk and Benzotriazole Ultra Violet Stabilizers in organisms from Indian coastal waters**” in two sessions (**Metal toxicology II** and **Environmental Issues in Developing Countries II**, respectively). The presentations

dealt the heavy metals contamination on *Perna Viridis* from Ennore and Kovalam areas in India and how the heavy metals damaged gills, DNA and hepatopancreas cells. Regarding emerging pollutants i.e. Synthetic musk and Benzotriazole UV Stabilizers in marine organisms from coastal sites in India. This was the first study reports Galaxolide, Tonalide and Musk Ketone and Benzotriazole UV Stabilizers (UV-9, P, 326, 327, 328 and 329). The synthetic musks and BUVSs were ranged from 2 - 486 ng/g (wet wt.) and 1 - 47 ng/g (wet wt.), respectively. Prof. AN. Subramanian chaired the session and raised more questions on the fate and sources of synthetic musks and BUVSs at species level.

Prof. AN. Subramanian has presented on “**PCDD/Fs, DL – PCBs and PBDEs in the dumpsite soils of Tiruchirappalli town, south India**” in the poster session on **Environmental Issues in Developing Countries (Table.3)**. They have quantified the concentration of PCDD/Fs, PCBs and PBDEs in Ariyamangalam municipal dumping sites from Tiruchirappalli, Tamilnadu, India. PCDD/Fs, PCBs and PBDEs, PBDEs were ranged from 2500-440000 pg/g. Both of them chaired the sessions where they made presentations. Participants were more interactive and raised number of questions.