

Title of Research: 12_PT01-02-3

Development of a user-friendly risk assessment tool for voluntary environmental risk assessment and management by business operators

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Summary of Research: There is an urgent social need for the implementation of accurate and simple risk assessment and management of chemicals toward 2020 WSSD goal. In order to address this need, during this project term we mainly focused on the improvement and enhancement of the English-and-Japanese versions of AIST-MeRAM 1.0 (released in Dec, 2014), implementation of function of risk management options based on the risk assessment results, expansion of the reliable databases. These achievements will be released as updated versions of "AIST-MeRAM 2.0" (English and Japanese) in May 2016. At the same time, in order to support the Asian strategy of JCIA and the promotion of Chemical Substances Control Law in Asian countries, a series of dissemination activities were performed such as 1) organize FTI-JCIA MeRAM workshop and joint workshop of the AIST and the Thailand National Laboratory, 2) support the workshop of bilateral cooperation of METI and the Thailand Ministry of Industry, 3) cooperate with JCIA member company to investigate the assessment of multiple substances by using MeRAM and to present on academic meeting. In addition to these achievements, research proposal based on agreements from plural meeting was developed and we have successfully proposed a win-win collaboration JCIA-LRI-project between ToxCalc and MeRAM.

Timeline: From March 2015 to February 2016

Topics: None

Publications: 1) (Presentation at Domestic Meeting) The 24th Environmental Chemistry Debate (24-26 June 2015), Sapporo Convention Center, Hokkaido, "Ecological risk assessment of surfactant by using AIST-MeRAM: case study of LAS".
2) (Invited Speech at Domestic Workshop) YNU International Symposium 2015 on Management of Water Environment, "Dissemination of methodologies of chemical risk assessment and management to Asia: Introduction of AIST-MeRAM". 3rd Aug 2015, Yokohama
3) (Paper Publication) JETOC Information B, 15-21 August 2015, "Introduction of a general tool for chemical ecological risk assessment and management: AIST-MeRAM".
4) (Presentation at International Meeting) The 9th AIST-TISTR-NSTDA Conference, AIST Waterfront, Tokyo Japan, 28th April 2015. "AIST-MeRAM: a user-friendly software for ecological risk assessment and management of chemicals".
5) (Presentation at METI-DIW Workshop) The 4th Workshop on Japan-Thailand Bilateral Cooperation on Chemical Management, 3rd -4th June 2015, DIW Office, Bangkok, Thailand.
6) (Organization of MeRAM Workshop at Thailand) 'MeRAM' Multi-purpose Ecological Risk Assessment and Management Tool Workshop. Queen Sirikit National Convention Center (QSNCC), Bangkok, Thailand. 8-9 July 2015..
7) (Research Outcome Exhibition) AIST Techno Bridge Fare, 22-23 October 2015, Tsukuba. To support an efficient environmental risk assessment and management of chemicals by "AIST-MeRAM" with the increase in the complexity.
8) (Presentation at International Meeting) The SETAC North America 36th Annual Meeting, Salt Lake City, United States. 1st-5th November 2015. Oral presentation: An all-in-one ecological risk assessment (ERA) tool: AIST-MeRAM.