

Pacifichem Selected Abstracts

Sunday, Dec. 18 PM - Poster Presentations				
Presentation Time/ Session Start Time	Location	Prog. #/Type	Authors Institutions	Abstract Title Session #/Title
Sunday, Dec. 18, 8:00 PM - 10:00 PM/ 8:00 PM	Renaissance Ilikai - Ballroom A/B/C/D/E	692 Poster	<u>T.Harada</u> ¹ ; S.Kaneco ¹ ; H.Katsumata ¹ ; T.Suzuki ² ; K.Ohta ¹ 1. Department of Chemistry for Materials, Mie University, Tsu, Mie, Japan; 2. Environmental Preservation Center, Mie University, Tsu, Mie, Japan	Sintering preparation technology of porous materials from sea sediments and their applications to water purification 694 Clean and Green Technologies for a Sustainable Environment (#71) [PS]

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Sintering preparation technology of porous materials from sea sediments and their applications to water purification

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Program Number: 692

Presentation Time: Sunday, Dec. 18, 8:00 PM - 10:00 PM

Location: Renaissance Ilikai - Ballroom A/B/C/D/E

In order to establish the regional creation of new industrial technologies, the CREATE (Collaboration of Regional Entities for the Advancement Technological Excellence) activity program was organized by the Japan Science and Technology (JST) Agency. The program accelerates the effective joint collaborations among R&D-oriented firms, universities, public research laboratories and companies. After the end of research period of the programs selected by the JST committee, it can be expected to develop the programs into the establishment of the local Center of Excellence (COE) and its continuous management. Mie Prefecture took part in this CREATE activity program at the beginning of the year 2003 with the proposal, entitled "Environmental Restoration Project on the Enclosed Coastal Seas, Ago Bay". The dredging has been performed since 2000, so as not to worsen the sea quality in Ago Bay. Since the dredged sea bottom sediments have a horrible smell, the limitation of disposal places became a serious problem. Hence, it is necessary to develop an alternative system to treat the dredged sea bottom sediments and replace with the disposal methods. One of the alternative methods is to convert the waste of the dredged sea bottom sediments into valuable products such as an adsorbent for wastewater treatment and brick production. The development of "value-added" reused products would have particular benefits both in terms of resource recovery and protection of the environment. In the present work, the sintering preparation technology of porous materials from sea sediments was developed and the sintered porous materials were used in the purification of water.

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