2010 Autumn National Meeting of Japan Thermal Spray Society 29-30 November, 2010 (Institute of Industrial Promotion Kawasaki, Kawasaki, JAPAN) Technical Program

Monday 29	November	· D- · · · - ·
	Opening Remarks	
10:20-12:00	Coating property and Evaluation method	
101	Effect of nitrogen flow rate on mechanical properties of metallic coatings by warm spray deposition	Makoto Watallabe, Christoph Brauns, Masayuki Komatsu, Seiji Kuroda (NIMS)
102	Investigation on Microstructure and Property of Al2O3 Sprayed Coatings	Taguchi Kensuke, Okada Tomo, Inaba Mitsuharu, Tani Kazumi (TOCALO Co., Ltd.)
103	Structure of LPPS Sprayed Cobalt Based Alloy Coating	Yoshifumi Kobayashi, Nobuyoshi Kuroki, Akihiro Kanno, Ken-ichiro Togoe, Jun-ichi Takeuchi (TOCALO Co., Ltd.)
104	Investigation for adhesive strength evaluation of interface by tensile pin	JENNY YAP KIM YEN, Hiroyuki Mita, Masanobu Nakamura,
105	test Adhesion Strength Evaluation of Cold-Sprayed Titanium Dioxide	Kazuyoshi Ishida, Keiji Sonoya (Univ. of Yamanashi) Motohiro Yamada (Toyohashi Univ. of Technology), Michelle E.
105	Particles	Dickinson (The Univ. of Auckland), Koichiro Shima, Noviana Tjitra Salim. Hiromi Nakano. Masahiro Fukumoto(Tovohashi Univ. of
Lunch (12:00-13:00)		
13:00-14:00	Spray Process (1)	
106	Formation of Alfa-Alumina film by Aerosol Deposition and its structural, mechanical properties	S. Hirose, Y. Ezuka, N. Sakamoto, S. Oh, J-H. Park and J. Akedo (AIST)
107	Improvement of Deposition Efficiency of Cold Sprayed Titanium and Stainless Steel by Extended Powder Heating Section of the Gun Nozzle	KumeMasatsugu, Sakaki Kazuhiko, Furumaki Myuji (Shinshu Univ.)
	Adhesion Behavior of Silicon Particle on silicon wafer and copper foil	W. Burgaliwa in Walantini W. Bu
108	by Cold Spay Process (Consideration for Applying Cold Spray Process for Lithium Secondary Battery)	Yuto Daiki, Sakaki Kazuhiko, Kaneko Hiroki, Shimizu Yasuo, Endo Morinobu (Shinshu Univ.)
Break (14:00-14:10)		
14:10-15:50 Invited Lectures		
		I IM (1' '/II' ') (T
I1	Our Present Work on Splat Formation in Thermal Spraying	Javad Mostaghimi (University of Toronto, Canada)
12	The Current Situation and Future Prospect of Thermal Spraying Industry	Huang Xiaoou (The Thermal Spraying Committee of China Surface
12	in China	Engineering Association, China)
	Break (15:50-16	:00)
16:00-17:40	Pre-treatment and Post-treatment	
	Influence of Shot peening in Fatigue Strength of WC-Co Thermal	Yuzo Kono, Yoshiko Shinhara, Mitsuo Kido (Hiroshima Institute of
109	Sprayed Materials	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
		Technology), Ryota Ueki (YAMABIKO Co.,Ltd)
110	Investigation of low-temperature plasma nitriding of plasma sprayed	Shinichiro Adachi, Nobuhiro Ueda (Technology Research Institute of
	stainless coating	Osaka Prefecture
111	Characteristic investigation ofboiler tube crack	Toshio Yoshida, Takeya Akihiro (Dai-ichi High Frequency Co., Ltd.)
	Effect of thermal spraying condition and WC particle size on surface	Kei Nomakuchi, Fumihiro Itoigawa (Nagoya Institute of Technology),
112	damage of WC-Co coatings under heavily loaded rubbing contact	Junya Kitamura, Kazuto Sato(Fujimi Incorporated), Seiji Kuroda,
112		
	conditions	Makoto Watanabe, Masavuki Komatsu (NIMS)
113	Porosity measurement of thermal sprayed ceramic coatings by SEM cross	Masayuki Komatsu, Seiji Kuroda (NIMS), Vautherin Beatrice (ENSIL)
113	sectional photography and image analysis (3rd report)	Iviasayuki Komatsu, Seiji Kuroda (Iviivis), vautileriii Beatrice (Eivisie)
Tuesday 30 November		
9:30-10:30	Theory and Fundamentals of Spray process	
201	Stress dispersion method of cermet coating	Yasunari Ishikawa, Kazuo Hamashima (Asahi Glass Co.,Ltd)
	Comparison of Particle Behavior of Warm Spray and HVAF Thermal	
202		Katanoda Hiroshi (Kagoshima Univ.)
	Spray by One-Dimensional Analysis	N 11 NC1 1 1 0 (TE 1 1 II) NC 11 1 10
203	Influence of Particle Size Distribution and Particle Shape on Cold	Norihiro Mikami, Kazuhiro Ogawa (Tohoku Univ.), Michiyoshi Sone,
203	Sprayed Coatings	Hirotaka Fukanuma (PLASMA Co.Ltd)
Break (10:30-10:40)		
10:40-12:00 Spray process (2)		
10110 12100	Improvement of mechanical property of WC-cermet coatings prepared by	
204	High Velocity Air Fuel (Influence of powder composition and spray	Takizawa Kiyoaki, Sakaki Kazuhiko, Miyajima Hidenori (Shinshu
204		Univ.), Kitamura Junya, Satou Kazuto (Fujimi Incorporated)
<u> </u>	condition on the mechanical property of HVAF sprayed WC-cermet	
	Effect of Feedstock Particles' Strength on the Structure and Some	Pornthep Chivavibul, Makoto Watanabe, Masayuki Komatsu, Seiji
205	<u> </u>	Kuroda (NIMS),
L !	Mechanical Properties of Warm-Sprayed WC-Co Coatings	Kazuto Sato, Junya Kitamura (Fujimi Incorporated)
20.5	Fabrication and Evaluation of Ceramics Coatings by Atmospheric	
206	Microwave Plasma Spray	T.Kondo, T.Yasui and M.Fukumoto (Toyohashi Univ. of Technology)
		Ryoichi Kawase, Yasunori Tanaka (Ariake National College of
207	Development and Sprayed Coating Property of Low Temperature HVAF	
207	Spray System	Technology), MakikoYonamine (Univ. of the Ryukyus), Koichi Akimoto
		(Coaken Techno CoLtd)
Lunch (12:00-13:15)		
13:15-14:30	Special Lecture	
S1	The concept of "Kawasaki-City of Music"	Takao Abe (Kawasaki City)
	Break (14:30-14	
14.40 16.00	Organized Session	····,
17.70-10.00	The key to adoption for Strategic Promotion of Supporting Industry and	
O1		
Forefront of Corporate Research		
Break (16:00-16:10)		
16:10-17:30	Reactive spray and New process	
		Kyouhei Nakamoto, Yoshiki Tsunekawa, Masahiro Okumiya (Toyota
208	Formation of NiAl Coating by Reactive Suspension Plasma Spraying	Technological Institute)
209	Study for Nickel base Salf Eliving allow Costing to the image of	
209	Study for Nickel-base Self Fluxing alloy Coating to the inner aspect of	Takeya Akihiro, Tanabe Michio (Dai-ichi High Frequency Co., Ltd.)
210	Synthesis of Titanium Dioxide Powders via Hydrolysis Titanyl Sulphate	Tjitra Salim Noviana, Yamada Motohiro, Nakano Hiromi and Fukumoto
210	for Cold Spray Coating	Masahiro (Toyohashi Univ. of Technology)
211	Application study of spray efficiency on WC cermet coating using Cold	kazuto Sato, Haruhiko Furukawa, Junya Kitamura (Fujimi Incorporated),
211	Spray	Dowon SEO, Kazuhiro Ogawa (Tohoku Univ.)
17.20 17.50		DOWON DEO, Kazunno Ogawa (TOHOKU UHIV.)
11/100-1/100	Closing Remarks	1