

ISAF-PFM-2011

Workshop on Relaxor-Based Piezoelectric Single Crystals: Current Status, Issues, and Proposed Concepts

The Westin Bayshore Hotel, Vancouver, B.C.
Sunday, July 24, 2011, 12:00–6:00 PM, Mckenzie Room



AGENDA

12:00–12:30 PM		Workshop Introduction and Goals <i>(includes working lunch)</i>	Z.-G. Ye & T. Shrout
		SESSION I.	
		Applications	
12:30–12:45	WS-I-1	Progress in Single Crystal Sonar Projection Integration	Richard J. Meyer, Jr.
12:45–1:00	WS-I-2	Single Crystal Projectors for Compact, Broadband Sonar	Harold C. Robinson
1:00–1:15	WS-I-3	High Performance Applications based on PMN-PT Single Crystal	Sang-Goo Lee
1:15–1:30	WS-I-4	Pyroelectric performances of relaxor-based single crystals for infrared detectors	Haosu Luo
1:30–1:45		Discussion	
		SESSION II.	
		Generation II & III Relaxor-PT Crystals	
1:45–2:00	WS-II-1	Exploration of Relaxor-based Ternary Piezoelectric Crystals by the Bridgman Method	Jun Luo
2:00–2:15	WS-II-2	Required Works in the PIN-PMN-PT PiezoCrystals	Zhuo Xu
2:15–2:30	WS-II-3	Growth and Characterization of $\text{Pb}(\text{Zr}_{1-x}\text{Ti}_x)\text{O}_3$ [PZT] Single Crystals	Yujuan Xie
2:30–2:45	WS-II-4	Shaped crystal growth of langasite-type piezoelectric single crystals and their physical properties	Akira Yoshikawa
2:45–3:00		Discussion	
3:00–3:15		Coffee Break	
		SESSION III.	
		Crystal Growth & Composites	
3:15–3:30	WS-III-1	PMN-PT-based Piezoelectric Single Crystals and Composites	Jian Tian
3:30–3:45	WS-III-2	Mn-Doped PMN-PT and PMN-PZT Single Crystals	Ho-Yong Lee
3:45–4:00	WS-III-3	Growth and Characterization of Some Ternary Relaxor Ferroelectric Crystals	Xifa Long
4:00–4:15	WS-III-4	Growth of modified PZN-PT Single crystals for compact ultra-high sensitivity Piezoelectric Devices	Leong-Chew Lim
4:15–4:30		Discussion	
		SESSION IV.	
		Applications II	
4:30–4:45	WS-IV-1	Application of Single Crystalline PMN-PT and PIN-PMN-PT in High-Performance Pyroelectric Detectors	Norbert Neumann
4:45–5:00	WS-IV-2	A Piezo Single Crystal Ultrasonic Micro-actuator for Driving Optics	Shuxiang Dong
5:00–5:15	WS-IV-3	Effect of $\text{Mn}_2\text{O}_3/\text{Au}$ Composite Electrode on Piezoelectric Properties of Lead Magnesium Niobate Titanate Single Crystal	Yohachi (John) Yamashita
5:15–5:30	WS-IV-4	The Draft Standard For Relaxor-Based Piezoelectric Single Crystal Materials For Transducer and Actuator Applications: Accomplishments of A decads	Lynn Ewart
5:30–5:45		General Discussion & Conclusions	T. Shrout & Z.-G. Ye