CONTENTS

JOURNAL OF THE JAPAN WELDING SOCIETY Vol.78 No.7 October 2009

Essay	
An Understanding of the Welding · · · · · · · · OSHIMA Kenji	3
(YASUDA Hideyuki	
Let's Join Together, Engineers! NOGITA Kazuhiro	
In-situ Observation of Sn alloy solidification at SPring-8	6
YOSHIYA Masato	
\ NAGIRA Tomoya	
Technical Information — Special Issue —	
Innovative Design of Steel Structures under Great Earthquake OHATA Mitsuru	4.0
A Preface HAMADA Masahiko IIJIMA Tooru	10
Design Method of New Building System ABURAKAWA Masahiro (The Collaborative Project by Cabinet and Ministries) NAKAI Masayoshi	11
(The Collaborative Project by Cabinet and Ministries) \ NAKAI Masayoshi	11
Anti-Earthquake Steel Structure building — Simple Structure is Best— · · · · · · · UCHIDA Masayoshi	18
Overview of E-Defense and Research Projects for	24
Earthquake Disaster Mitigation by Utilizing E-Defense	_ 1
Numerical Simulation of Complete Collapse of Steel Building Tested by	
Large Shaking Table at E-Defense TADA Motohide	30
(Study on Complete Collapse of Building by Earthquake)	
Structural Soundness Diagnosis by Ultra-dynamic Structural Testing System · · · · KIM You-Chul	35
Lecture Note —A Class in Joining & Welding —	
Chapter 1 Welding Processes and Equipment	
1-6 Joining of Plastic Parts SATO Isao	40
Chapter 3 Welded Construction and Design	
3-6 Fatigue Strength of Welded Joints GOTOH Koji	45
Up-to-the-minute	
University of Alberta Announces New Chair in Welding ······ Adrian Gerlich	50
Spot Light	
Egg of Welding	53
WELNET for Young Members	
Report from Global Network Committee —Singapore AWF Symposium— · · · · · · · · · · · · · · · · · · ·	56
Calendar of Event	58
Society Announcements	61
List of JWS Company Members ····	64