

Table of Contents

World Titanium Market Outlook	1
J. Landis Martin, Chairman and CEO, TIMET	
New Markets in Oil and Gas	27
Timothy G. Rupert, President and CEO, RTI International Metals, Inc.	
Titanium Industry Trends	43
John V. Andrews, President, High Performance Metals Group, an Allegheny Teledyne Company	
Service – A Key Issue for a Growing Titanium Industry	53
Dr. Markus Holz, Managing Director, Deutsche Titan, Germany	
The Japanese Titanium Market in the Coming Decade	63
Yoshiaki Inaba, Senior Officer, Kobe Steel Limited	
World Titanium Industry Trends	65
Dr. Vladislav Tetyukhin, B.Sc., President, VSMPO	
Volant Sports Integration of Titanium	71
Stephan Hienzsich, Vice President of Sales and Marketing, Volant Sports, LLC	
Recent Developments in Titanium for Armor and Armament Applications	99
John C. Fanning, Manager of Applications Development, TIMET	
Dental Titanium Casting	129
Dr. Toru Okabe, Professor and Chairman, Department of Biomaterials Science, Baylor College of Dentistry	
Titanium in the Aerospace Industry	149
Rodney R. Boyer, Technical Fellow, Boeing Commercial Airplane Group	
Titanium Outlook '99, Aerospace/Aircraft	173
James Marcotuli, Director of Procurement, Lockheed-Martin	
The Neptune Project: Titanium in an Offshore Application	175
R. Don Vardeman, Manager, Facilities Engineering, Kerr-McGee Corporation	
Technical and Economic Considerations for Titanium's Use in Flue Gas Desulphurisation Projects	189
John A. Mountford, Jr., Manager New Product/ Market Development, TIMET	

Titanium in the Chemical Processing Industry.....	207
Richard A. Clapp, Consultant in Materials Engineering, Dupont Company	
Coping with Challenges and Capitalizing on Opportunities	261
Firoze E. Katrak, Vice President of Market Assessment, Charles River Associates, Inc.	
Architectural Titanium: Worldwide Applications.....	295
Gary Nemchock, President, Architectural Titanium	
Qualifying Titanium Risers for the Visund Field.....	297
Elizabeth H. Tørstad, Senior Engineer, Det Norske Veritas	
Laser and Waterjet Processing Technology	341
Bill Frank, Sales Engineer, LAI Companies	
Recent Advances in Titanium	
Alloy Processing – The Role of Computer Modeling	351
Dr. Stephen Fox, Manager-U.S. Research & Development, TIMET	
Titanium in Valve Technology.....	379
R.C. (Ron) Merrick, P.E., Director Piping Material Engineering, Fluor Daniel Inc.	
Titanium in Year 2000 and Beyond	411
Yasunaka Oda, President, UEX Limited	
International Titanium Association: Building the Future.....	419
Brian Simpson, Executive Director, International Titanium Association Amy Fitzgerald, Director of Member Services, International Titanium Association	