

INVESTMENT CASTING INSTITUTE BIBLIOGRAPHY

SECTION 4 FIRING, MELTING & CASTING
--

YEAR	INDEX #	SOURCE #	TITLE	PAGE AMOUNT
1980	4:33	22	Development of Exothermically Cast Single-crystal MAR-M 247 and Derivative Alloys T. E. Strangeman, G. S. Hoppin III, K. Harris, R. E. Schwer	11
	4:16	26	Vacuum Induction Refined MM0011 (MAR-M 247) for Investment Cast Turbines K. Harris, R. E. Schwer	17
1981	4:34	31	Maintenance of Induction Melting Furnaces John O'Meara	16
1982	4:35	32	Metallurgical Advantages of Induction Melted/AOD Refined Master Alloy J. I. Snowden, R. J. Quigg, R. E. Schwer, Cannon-Muskegon Corp.	9
	4:36	32	Inclusions and Melt-Crucible Reactions in VIM Nickel-base Alloys D. W. Gusching and D. R. Poirier	14
	4:37	32	Control of Nonmetallic Particles in VIM-melted Superalloys W. H. Sutton, Special Metals	8
1985	4:38	38	Remelting Practice for the Precision Caster, or All you Want to Know About Precision Casting Theodore Klemp III and James P. Kiely, Cannon-Muskegon Corp.	36
	4:39	38	Factors to Consider When Using Ceramics to Filter Molten Metals Stuart Uram and Tyler Schick, Certech Inc.	9
	4:40	38	High Purity Hot Topping Compounds John Briggs, FOSECO	22
	4:41	38	Use of Ceramic Recuperators on Investment Casting Mold Burnout Furnaces Leonard L. Ceriotti, Valcast Division GTE-Valeron James J. Przyborowski, Howmet Turbine Components Corp.	16

INVESTMENT CASTING INSTITUTE BIBLIOGRAPHY

YEAR	INDEX #	SOURCE #	TITLE	PAGE AMOUNT
	4:42	38	An Innovative Approach to Ceramic Mold Firing John R. Keough, Atmosphere Furnace Company	13
1986	4:43	40	Recent Trends in Melting and Casting Technology for Investment Castings Richard D. Tanaglia, Battelle Columbus Div.	24
1987	4:44	41	The SPAL™ Process: Inert Atmosphere Protection of Molten Metal Sara Hornby-Anderson & Noel Lutgen, Liquid Air Corporation	5
1987	4:45	41	Advanced Technology Infrared Radiation Thermometers Steve Wronski, Ircon, Inc.	10
	4:46	41	An Advanced Injection Treatment System for Aluminum-Silicon Alloys Joseph M. Fuqua, Ashland Chemical Company	26
	4:47	41	Controlling Casting Quality Through Accurate Nozzle Positioning and Mold Level Flow Control Utilizing Laser Triangulation Ron Miller, Selective Electronic, Inc	24
	4:48	41	Electron Beam Remelt Technology Advancements Jack R. Mosher and Dr. Michael Krehl, Degussa Electronics, Inc.	7
	4:49	41	AOD: Argon, Oxygen, Decarburization Systems for Steel Foundries, i.e., Investment Casters Raymond J. Sarlitto, Union Carbide Corp. Linde Div.	25
1988	4:50	43	SPAL® for the Investment Caster Sara Hornby-Anderson and John Foss, Liquid Air Corp.	6
	4:51	43	Mold Saturation Ratio - A New Concept for Evaluating Investment Mold Chilling Power Heng Huang, John T. Berry, Thomas S. Piwonka, The University of Alabama	15
	4:52	43	Advanced Reticulated Ceramic Metal Filters and Performance Results Jeffrey R. Morris, Hi-Tech Ceramics Inc., Harry Eck, Gray-Syracuse Inc	13
	4:54	44	Medium Frequency Induction Melting and Investment Casting P. A. James, Radyne Limited	10

INVESTMENT CASTING INSTITUTE BIBLIOGRAPHY

YEAR	INDEX #	SOURCE #	TITLE	PAGE AMOUNT
1989	4:55	45	Filtration: Molten Metal Techniques and Economics John W. Graham, Donald W. Graham, Dale Kepner, Astro Met, Inc.	9
	4:56	45	Simplified Approach to Degassing of Common Cast Alloys Theodore Klemp III, Cannon-Muskegon Corp.	44
	4:57	45	Reoxidation Macroinclusions in Steel Castings R. W. Monroe and Malcolm Blair, Steel Founders' Society	25
	4:58	45	Laminar Barrier Inerting for Induction Melting S. K. Sharma, M. S. Nowotarski, Union Carbide Industrial Gases, Inc., Linde Division	15
	4:59	45	Small Batch Production of Ductile Cast Iron Charles V. White, GMI Engineering & Management Institute	6
1989	4:60	45	SPAL® for the Investment Caster Sara Hornby-Anderson, John W. Foss, Liquid Air Corp., and Raymond M. Nagan, Bharat S. Jhala, Arwood Corp.	36
	4:61	45	Electron Beam Refining of Superalloy Revert for Foundries Dr. Ulrich Muerrle, Degussa Corporation	10
1990	4:62	47	A New Containerless Melting Process for Investment Casting Nagy El-Kaddah, Thomas Piwonka and John Berry, The University of Alabama	17
	4:63	48	New Trends and Developments in Vacuum Precision Casting Equipment with Special Consideration to Cold Crucible Melting F. Hugo, Leybold AG	14
	4:64	48	Observations of the Atmosphere in a Vacuum Casting Furnace J. MacGibbon and S. C. Yates, CSIR	21
1991	4:65	49	Effect of Laminar Barrier Inerting on Cast Part Yields (Update of paper given in 1989) Allen H. Chan, Union Carbide Industrial Gases, Inc.	11
	4:66	49	Investment Casting of Aluminum Alloys using the Magnetic Suspension Melting Process Nagy El-Kaddah and J. R. Bhamidipati, University of Alabama	21

INVESTMENT CASTING INSTITUTE BIBLIOGRAPHY

YEAR	INDEX #	SOURCE #	TITLE	PAGE AMOUNT
	4:70	50	Development of Technology for Investment Casting of Aluminum Matrix Composites for Aerospace Applications Ram Sellamuthu, Amcast Aerospace Products	28
	4:71	50	The Magnetic Suspension Melting Process™; Recent Results on Melting Ferrous Alloys Nagy El-Kaddah, The University of Alabama and R. Lampi, Inductotherm Corporation	18
1992	4:72	50	A Designed Experiment Evaluating Laminar Barrier Inerting for Induction Melting Trudee Bealka, Bealka Castings, Inc., Kevin L. Smith and Allen H. Chan, Praxair Inc., Linde Division	7
	4:73	50	Improvements in Castability and Resultant Cost Savings Through SPAL™ Processing Terry Hildreth, Semco, Inc., K. Till and J. Patel, Liquid Air Corporation 11 Pages	11
	4:74	50	The Experimental Determination of Dissolved Hydrogen in Molten Ferrous Alloys During Application of the SPAL™ Process George Frigm, Heraeus Electro-Nite, F. Vonesh and T. LaSorda, Liquid Air Corporation	27
1994	4:75	56	The Induction Melting of Monel-A, for Large Heavy-Section Castings, while under a Protective Shroud of Liquid Argon. Kenneth Till, Terry LaSorda, Air Liquide America Corporation; and Daniel Kotowitz, Western Bronze Corporation	5
1995	4:76	57	Reduced Oxide Formation Simply by Reducing the Reynolds Number with Reticulated Ceramics Jay Morris and Laurie Strom, Hi-Tech Ceramics	10
	4:78	58	Vacuum Arc and/or Cold Wall Induction Casting of Titanium Golf Club Heads U. Biebricher, H.G. Fellmann and F. Hugo, ALD Vacuum Technologies GmbH, and R. Schumann, ALD Vacuum Technologies, Inc.	11
1997	4:79	60	The Control of Foundry Revert Steve Sikkenga, Cannon-Muskegon Corporation	6

INVESTMENT CASTING INSTITUTE BIBLIOGRAPHY

YEAR	INDEX #	SOURCE #	TITLE	PAGE AMOUNT
	4:80	60	Development of an Argon Swirl Inerting System in an Investment Steel Foundry Douglas W. Fay, Sr., Pine Tree Castings, Div. Sturm Ruger & Co., Inc. Zbigniew Zurecki and Robert Best, Air Products and Chemicals, Inc.	35
1998	4:81	62	Pre-Heat Control Jack Zheng, Jim Snook, Gray-Syracuse, Inc.	9
	4:82	62	Interaction of CMSX-4 Alloy with Model Ceramics J. Cihlal, K. Maca, D. Ford, Technical University of Brno	16
	4:83	62	Induction Melting for Quality and Cost Optimization T. Klemp, III, D. Jack Drage, Remelt Sources Inc.	27
1999	4:84	63	Investment Cast Cobalt Alloys K. Harris, S. Sikkenga, Cannon-Muskegon Corp.	10
	4:85	63	Quality Improvement and Cost Savings from the use of Ceramic Foam Filters in the Production of Investment Castings N. Child, Foseco (FS), U.K.	6
	4:86	63	The Benefits of Using MAVIS Solidification Simulation Software in Investment Casting Foundries C.D. Johnson*, C. Dean**, Prof. J.A. Spittle***, Dr. S.G. R. Brown, *Alphacast Software Ltd., **Manchester Investment Castings, Ltd., ***University of Wales Swansea, U.K.	11
	4:88	64	Multiple-Output Power Supplies Increase the Production of Investment Casting Melting Systems John H. Mortimer, Mark T. Eckert and John J. McKelvie Inductotherm Corp.	11
	4:89	64	The Role of Vacuum in Investment Casting Dr. W. Westlake, BOC Edwards, U.K. M. Delahunt, BOC Edwards, USA	8
	4:90	64	Prime Foundry Meltstock Technology for the New Millennium Theodore Klemp III, Remelt Sources, Inc. and Larry Wigmore, Atlas Speciality Steels	14

INVESTMENT CASTING INSTITUTE BIBLIOGRAPHY

YEAR	INDEX #	SOURCE #	TITLE	PAGE AMOUNT
2001	4:91	68	The Application of SPAL™ on Nickel-Boron and Nickel Aluminide Alloy Systems Robert E. Barber, Franklin Bronze and Alloy Co. Inc. Terence La Sorda and Kenneth Till, Air Liquide America Corporation	4
2002	4:92	69	The Application Of Spal™ To Increase The Use Of Revert Material In Ferrous Alloy Induction Furnace Charges F. Schlick, Conbraco Industries, Inc. T. La Sorda, Air Liquide America Corporation	7
	4:93	69	Precision Casting In Vacuum Furnaces Ulrich Betz And Matt Mede, Ald Vacuum Technologies	20
2004	4:94	71	Titanium Casting Using the Permanent Mold Technique Matt Mede, ALD Vacuum Technologies, Inc.	6
	4:95	71	Large SX and DS Industrial Gas Turbine Blades by Liquid Metal Cooling Dr. Oliver Luesebrink, Doncasters Precision Castings/Bochum	21
2006	4:96	73	Immediate Cost Reductions & Quality Improvements with SPAL Process Inert Blanketing Douglas Marion	22
2007	4:97	74	Modeling the Filling of an Investment Cast Mold Tim Feaser, Kovatch Castings, Inc.	33
	4:98	74	Successful Pyrometry in Investment Casting Derek Olinger, Esco Turbine Technologies Group	18
2008	4:99	75	Numerical Simulation of the Thermal Processes Occurring During Pouring of Ferrous and Nickel Based Alloys into Ceramic Shells Dr. Milan Horacek, University of Brno	14
	5:00	75	Improvement of Cleanliness of Steel Melts Bruno Fragoso, Zollern & Comandita	10
	5:01	75	A Practical Guide to Successful Investment Casting of Titanium Alloys Manuel Guerra, Remet Corp.	18
	5:02	75	Development of Melting and Casting Processes of TiAL in the Cold Induction Crucible Vacuum Furnace Georg Jarczyk, ALD Vacuum Technologies	7

INVESTMENT CASTING INSTITUTE BIBLIOGRAPHY

YEAR	INDEX #	SOURCE #	TITLE	PAGE AMOUNT
2010	5:03	77	Benefits of Liquid Argon Shield in Induction Melting With SPAL™ Technology Randy Harrington, Quality Castings	8
2011	4:100	78	Efficiencies and Workplace Environmental Impact Improvements in Mold Wrap Applications Chris Johnson, Morgan Thermal Ceramics	7
	4:101	78	Controlled Solidification of Liquid Aluminum Alloys Salim Khan & Jose Martinez, Uni-Cast	15