

<b>SECTION 10</b> <b>PATTERN MATERIALS &amp; PATTERN MAKING</b>
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YEAR	INDEX #	SOURCE #	TITLE	PAGE AMOUNT
1980	10:15	22	Standardized Wax Testing Die J. H. Roberts	7
1981	10:16	28	Automation Beyond the Shellroom J. Hockin, J. Brown, Escast Inc.	16
1982	10:18	32	MPI's 30 Ton Liquid/Paste Wax and Ceramic Injector and MPI's 40 Gallon Wax Melting Tempering, and Transfer Unit Bruce Phipps, MPI	7
	10:19	32	Sophistication without Complication Using Micro-Computer Programmable Controllers Fred Ellin, Escast Inc.	7
	10:20	32	Reports on the Use of the Institute's Test Die Ron Bird, Robert Brown, Harry Eck, Wm. Wurster	7
1983	10:21	36	Formulating Pattern Waxes Robert Horton	25
1984	10:22	37	Urea Pattern Process by Low Pressure Injection T. Fujita	6
	10:23	37	Reclamation and Modification of Waxes for Use as Pattern Wax and Sprue Wax Robert Horton and Charles LeBeau III	10
1985	10:24	38	Automatic Wax Injectors Bruce S. Phipps, Mueller-Phipps International, Inc.	9
	10:25	38	Automatic Pattern Assembly Machine Fred Ellin, Escast Inc.	20
1988	10:26	44	Update on Investment Casting Waxes R. B. Williams, Blayson Olefines Ltd.	9
1990	10:27	47	The Role of Analysis in the Development of New Casting Wax Materials A. Barker, Dussek Campbell, Ltd., Paul Solomon, Yates Manufacturing Ltd.	10

INVESTMENT CASTING INSTITUTE BIBLIOGRAPHY

YEAR	INDEX #	SOURCE #	TITLE	PAGE AMOUNT
1991	10:28	49	Wax Dimensional Control with DOE (Design of Experiments) Anant Kelkar, Wyman-Gordon Investment Castings	20
1992	10:29	50	Continuous Wax Cooling at the Wax Injector Yields Higher Productivity Bruce S. Phipps, MPI-Mueller Phipps International Inc.	8
	10:30	50	Advances in Reclamation and Reconstitution of Filled Wax W. P. Bond, D. J. Morson and R. B. Williams, Blayson Olefines Ltd. Stratford, London, UK	7
	10:31	51	Innovative Pattern Waxes to Satisfy Modern Casting Needs John Argueso, M. Argueso & Co., C. Kovach, Signicast Corporation and G. Schiefelbein, Remet Corporation	32
1993	10:32	53	Flow and Deformation of Casting Waxes in the Solidification Region Dr. H. Monks, Dussek Campbell (UK) Ltd.	10
	10:33	53	Developments in Wax Reclamation D. P. Bond, D. J. Morson and R. B. Williams, Blayson Olefines Ltd., UK	8
	10:34	53	High Level Computer Control Wax Injectors Bruce S. Phipps, Mueller Phipps International Inc.	2
1995	10:35	57	Mechanical Properties of Pattern Waxes H. Fielder, Dussek Campbell Ltd. (Yates Investment Casting Wax Div.)	7
	10:36	57	Water Soluble Sand Cores for Investment Casting David M. Goddard and Paul J. Rynn, Rynn's Investa/Core; Robert L. Manning and Daniel Jason, Borden, Inc.	3
1996	10:37	58	Influence of Injection Parameters to the Dimensional Stability of Wax Patterns Milan Horacek, Technical University Brno, Czech Republic Lubos Stefan, Walter-Deritend, Prague, Czech Republic	20
1997	10:38	60	Factors Affecting Investment Casting Pattern Die Dimensions T.S. Piwonka and J.M. Wiest, The University of Alabama	10
	10:39	60	Revolution in Pattern Wax John P. Argueso and Paul Solomon, M. Argueso & Co., Inc.	12

INVESTMENT CASTING INSTITUTE BIBLIOGRAPHY

YEAR	INDEX #	SOURCE #	TITLE	PAGE AMOUNT
1998	10:40	62	The Effect of Fillers on the Physical Properties of Investment Casting Waxes Harvey Fielder, Dussek-Campbell Yates Investment Casting Wax Inc., U.K.	21
	10:41	62	Wax, Wax Assembly and Shell: The Elements of Efficient Dewax Glenn H. Foster and John Cordes, Pacific Kiln Insulations Co. Inc.	9
	10:42	62	Analysis of the Implementation of a Process for Wax Recycling C. Schriever and F.D. de C.F. Carmo, Carmo & Schriever Assessoria Empresarial Ltd.	4
1999	10:43	63	Assessment of Properties of Investment Casting Waxes Dr. Sekhar Chakravorty, Centre for Materials & Measurement and Technology, National Physical Laboratory Teddington 15 Pages U.K.	15
	10:44	63	The Effect of Fillers on the Physical Properties of Investment Casting Waxes H. Fielder, REMET (Dussek Campbell Yates Limited), U.K.	24
	10:45	64	The Analysis of Ash in Wax John P. Argueso, Paul Solomon and Glenn Schiefelbein M. Argueso & Co.	10
2000	10:46	65	Process Control for Pattern Production Bruce Phipps, Mueller Phipps International	10
	10:47	65	The Reclamation of Investment Casting Waxes H. Fielder, Remet UK Limited	7
	10:48	65	Liquid Forming Crystalline Pattern Material for Investment Casting Dr. T. Fujita, Associated Foundries Engineering Co. Ltd., and T. Imanishi, Imanishi Ltd., Japan	12
	10:49	65	HSC Milled Wax Patterns G. Pistol, Prof. Pistol & Partner GmbH, and G. Hanke, G. Hanke Industrial Consulting, Germany	9
	10:50	66	The Reclamation of Investment Casting Waxes H. Fielder, Remet UK Ltd.	9

INVESTMENT CASTING INSTITUTE BIBLIOGRAPHY

YEAR	INDEX #	SOURCE #	TITLE	PAGE AMOUNT
	10:51	66	Plastic Injection Methodologies and Their Application in Wax Injection Doug Neece, Howmet-TMP, Inc	13
	10:52	66	Dimensional Issues with Investment Casting Patterns made by Stereolithography Curtis Wahlgren and Suresh Jayanthi, DSM Somos Tom Mueller, Express Pattern	8
	10:53	66	Material Properties for Predicting Wax Pattern Dimensions in Investment Casting A.S. Sabau and S. Viswanathan, Oak Ridge Natl. Lab.	12
<b>2001</b>	10:54	67	Increasing Efficiencies in the Wax Room F. D. Neece, Howmet TMP Inc.	9
	10:55	67	Quality in the Production of Wax Patterns Huber, H. Bleier, Battenfeld IMT, Austria C. Kukla, Mining University of Leoben, Austria	10
	10:56	68	Injection Molding of Wax Patterns: Using Computational Fluid Dynamics and Flow Visualization to Understand Filling Behavior Aleksander Cendrowicz, Jean-Christophe Gebelin, Mark Jolly and Stuart Blackburn, University of Birmingham, UK.	11
	10:57	68	Thermal Expansion of Investment Casting Pattern Wax Brian J. Sunderland, Tri-State University, Angola, IN; Von L. Richards, Robert V. Wolf, University of Missouri at Rolla	12
	10:58	68	Determining Wax Pattern Dimensions in Investment Casting Using Viscoelastic Models A.S. Sabau and S. Viswanathan, Metals & Ceramics Division, Oak Ridge National Laboratory	16
	10:59	68	An Overview of the Rheology of Investment Casting Waxes Marcelo Añibarro and Bruce Wadenius Remet Developmental Laboratory	13
	10:60	68	Significant Productivity Improvements from Solid Wax Injection Technology and Accompanying Automation	7

INVESTMENT CASTING INSTITUTE BIBLIOGRAPHY

YEAR	INDEX #	SOURCE #	TITLE	PAGE AMOUNT
2002	10:61	69	Influence Of Tool Design And Process Parameters On Wax Patterns A. Huber, H. Bleier - Battenfeld Injection Molding Technology, Kottlingbrunn/Austria C. Kukla - Industrial Liaison Department, University of Leoben/Austria H. Loibl - Fotec Research and Technology, Wiener Neustadt/Austria	9
2002	10:62	69	Wax Characterization Jeffrey C. Niles, Marcelo Anibarro, and Harvey Fielder Remet Development Lab	10
	10:63	69	Wax Temperature Control, And Its Effects On Your Casting Throughput Bruce Phipps, MPI, Inc.	20
2003	10:64	70	Casting Applications for Reclaimable Polymorphic Fillers Chris Verta - President Pennsylvania Wax Corporation	8
	10:65	70	Cost Reduction Opportunities in the Manufacturing of Investment Wax Patrick Manning – President M. Argueso & Co., Inc.	7
2004	10:66	71	Tests for Determining Viscoelastic Properties of Investment Casting Waxes Adrian Sabau, Oak Ridge National Laboratory	11
	10:67	71	Process Control for Investment Wax Manufacturing Paul Guinn, Kindt-Collins Company	13
	10:68	71	Benefits of a Wax Reclamation System in a Investment Casting Foundry Hank Harvey, Tech Cast, Inc.	15
2005	10:69	72	The Characterization of Casting Wax Rheology Harvey Fielder, M. Argueso & Co. Inc.	11
	10:70	72	Advances in Wax Recycling Technology Chris Verta, Pennsylvania Wax Corporation	9
	10:71	72	Continuous Improvement Opportunities in the Wax Room Ed Thorson, Pine Tree Castings	5

INVESTMENT CASTING INSTITUTE BIBLIOGRAPHY

YEAR	INDEX #	SOURCE #	TITLE	PAGE AMOUNT
2006	10:72	73	Knowing Your Investment Casting Process Sam Scott, ESI North America	6
	10:73	73	Shell Mold Investment Casting Process Using Ice Patterns Dr. Von Richards, University of Missouri - Rolla	17
	10:74	73	The Next Generation Pattern Material Richard Harrington, FOPAT	7
2007	10:75	74	Improvements in the Wax Room: Soluble Waxes Barry Dahlin, Westech Products, Inc.	9
	10:76	74	Gage R&R on Wall Thickness Features in Wax Patterns Dr. Victor Okhuysen, Cal Poly University	9
	10:77	74	Water Soluble Cores for Investment Casting Randy Morss, Remet Corporation	9
2008	10:78	75	Casting Yields are Improved Through Automation And Process Control in the Wax Room Bruce Phipps, MPI Inc.	20
2009	10:79	76	Profits Through Education Bruce Phipps, MPI	8
	10:80	76	Elastic Behavior of Pattern Waxes Randy Morss, Remet Corporation	19
2010	10:81	77	Foundry Cast Studies Using an Advanced Pattern Material, FOPAT in Place of Wax James Gardner, buyCASTINGS.COM	14
2011	10:82	78	Profits Through Innovation Bruce Phipps, MPI, Inc.	13
	10:83	78	Characterization of Low Density Polymer Pattern for Large Steel Investment Casting Hongfang Zhao, Missouri University of Science & Technology	13