

SECTION 2  
CERAMICS AND MOLD MAKING

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	2:69	22	An Evaluation of Green and Fired Strength Additives for Precision Investment Casting James N. Beyer, Phyllis C. Black, Nancy J. Hunt	12
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<b>1982</b>	2:94	32	The Testing of Preformed Ceramic Shapes Jerome Fischman	15
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	2:102	36	Development of Ceramic Foam Materials for Filtration of High Temperature Investment Casting Alloys W. H. Sutton and J. R. Morris, Special Metals Corp.	21
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1986	2:106	40	A New Approach to the Assessment of Hot Deformation of Ceramic Shell Molds Robert McCallum, National Engineering Laboratory Scotland	17
	2:107	40	A New Process for the Production of Poured Preformed Ceramic Shapes Jerome Fischman, High Temperature Technology, Inc.	18
1987	2:108	41	"Quick-Set" Binder Investment Shell Process Wes Jones, Buntrock Industries Inc.	10
	2:109	41	Harborcoat Binder and the Harborcoat Process John Moore & Kenneth Siegfried, Keramiks Inc.	15
	2:110	42	Some Observations on the Thermal Behaviour of Zircon-Molochite Shell Moulds J. MacGibbon and S. C. Yates, Nat. Inst. for Matls Research, CSIR	21
	2:111	42	Bulging of Investment Castings M. Grech, University of Malta; R. A. Harding, BC/RA, J.M. Young University of Birmingham, U.K.	9
1988	2:112	43	System 6000 Binder James R. Gassen, Ron S. Doles, Nalco Chemical Co.	5
	2:113	43	Quality Control in the Manufacture of Ceramic Cores: A Review of New Methods and Apparatus Raymond Pietras, James Lake, Robert Cohen and Stuart Uram, Certech Inc.	32
	2:114	43	Hot Permeability of Shell Moulds: Its Measurement and Place in Process Technology W. Lang, D. Learmonth and R. McCallum, National Engineering Laboratory, Scotland, UK	29
	2:115	44	Remasil 60®; A Refractory for Casting Parts under High Thermal Stress Conditions C. H. Matzek, Remet Corporation	23

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	2:201	43	Faster & Safer Shell Production Carl H. Schwartz, Ransom & Randolph Div., Dentsply International Inc.	7
<b>1989</b>	2:117	45	Study on Firing Process of Ceramic Mold Xiu Jiping, Shen Qiwen, Liu Liping, Xiong-Guoqin, Huazhong University of Science and Technology, Wuhan, China	8
	2:118	45	Improving Collapsibility of Ceramic Molds Shen Qiwen, Liu Liping, Xiu Jiping, Huazhong University of Science and Technology, Wuhan, China	11
	2:119	45	The Impact of Ceramic Shell Materials on Shell Performance Michael J. Hendricks, Carl H. Schwartz, Ransom & Randolph	18
	2:120	45	Surfactants, Wetting, and Foams Albert T. Bozzo, Remet Corp.	25
	2:121	45	An Analytical Method of Refractory Subsieve Size and the Application of the Computer Zhang Jiajun, Zhou Xiaoping, Tsinghua University, Beijing, China	10
	2:122	45	Thermal Conductivity of Investment Casting Ceramics H. Huang, J. T. Berry, X.Z. Zheng and T. S. Piwonka, University of Alabama	20
	2:123	46	An Alternative Back-up Filler to Zircon Stephen Barnett, Incast Consultancy Ltd.	9
	2:124	45	An Evaluation of Quick-Dried Alumina-Based Shell Moulds J. MacGibbon and S. C. Yates, CSIR, South Africa	20
<b>1990</b>	2:125	47	The Production of Water-Based Shells in One Day R. Challinor, Drytech Processing Ltd. E. V. Williams, W. Lang and R. McCallum, National Engineering Laboratory, Scotland.	32
	2:126	47	Prewetting Effects on Shell Strength and Structure William O. Roberts, E. I. DuPont de Nemours & Co.	12
	2:127	48	An Analysis of Changes in the Properties of a Copolymer Silicate Binder During the Process of its Aging Karwinski and L. Lusniak-Lech, Foundry Research Institute, Krakow	12

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<b>1991</b>	2:132	49	Environmental Conditions and Shell Materials Impact on Shell Integrity Michael J. Hendricks, Ransom & Randolph	11
	2:133	49	Conversion from Ethyl Silicate to Colloidal Silicate Shell Systems William Ball, Dolphin Inc.	4
	2:134	49	A Study in the Consistency of Zircon Flour Manuel Guerra, Remet Corporation	45
<b>1992</b>	2:135	50	Remasol® Adbond® B and Remasol® Adbond® BV Binders Manuel Guerra, Jr., Remet Corporation	9
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	2:138	50	Process Influences on Effective Slurry Life Michael J. Hendricks, Glenn R. Maxwell, Ransom & Randolph	7
	2:139	50	The Development of the NIMIX Dipping Vessel G. J. Pollard, BHR Group Ltd., UK	9
	2:140	50	Comparison of Fused Alumina Shell Systems Using Rapid Dry and Standard Binders for DS/SC Components S. O. Barnett, Incast Consultancy Ltd., D. Poggi, Centro Sviluppo Materiali	17
	2:141	50	Investment Casting in a Very Hot Shell Made from Fused Silica Jerry D. Snow, Minco Inc., Robert H. Frost, Colorado School of Mines, and David H. Sturgis, Precision Castparts Inc.	15

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	2:147	51	Evaluation of Silica Sols as Ceramic Shell Binders at High Temperatures M. Persson, Eka Nobel, Sweden; A. Torncrona, Chalmers University of Technology, Sweden and S. Karlsson, Swedish Ceramic Institute.	17
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	2:152	53	The Effect of Using 75 & 45 Micron Grade Zircon on DS/SC Shell Systems S. O. Barnett, Incast Consultancy Ltd., UK, and D. Poggi, Centro Svilppo Materiali, Italy.	12
	2:153	53	Foundry Development of the NIMIX Dipping Vessel D. Mills, Rolls-Royce plc., and G. J. Pollard, BHR Group Ltd.	12

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	2:156	54	The Effects of Zircon in the Prime Coat of Investment Casting Shells J.B. Steinkamp, C. W. Ramsay, D. R. Askeland and R. V. Wolf, University of Missouri-Rolla	22
	2:157	54	Thermal Conductivity & Heat Transfer Measurement for Ceramic Shell Molds Michael J. Hendricks and Donald R. Engelhardt, Ransom & Randolph	15
<b>1994</b>	2:158	55	Remasol® Adbond® BV: A Practical Update James R. Pyne, Remet Corporation	14
	2:159	55	New Developments in Rapid Dry Water Based Shell Systems M. J. Hendricks, D. R. Engelhardt and D. K. Well, Ransom & Randolph	17
	2:160	56	Critical Assessment of Modulus of Rupture (MOR) Testing Victor Okhuysen, Robert C. Voigt, Pennsylvania State University	18
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	2:162	56	Software-Based Slurry Control Michael J. Hendricks and Donald R. Engelhardt, Ransom & Randolph	11
<b>1995</b>	2:163	57	Ceramic Shell Slurry Make-up and Control Michael J. Hendricks and Donald R. Engelhardt, Ransom & Randolph	5
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	2:165	57	Ludox® SK-R As a Replacement for Ethyl Silicate Wm. O. Roberts, DuPont	7
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	2:169	58	The Influence of Surfactants on Properties of Ceramic Slurries and Moulds Used in Investment Casting Z. Adamczyk, G. Para, Polish Academy of Sciences, Cracow, Poland Karwinski, J. Stachanczyk, Foundry Research Institute, Cracow	10
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<b>1997</b>	2:176	59	The Use of Statistical Process Control (SPC) to Maintain Slurry Composition J. Roy and A. Cooke, University of Cambridge - U.K. J. Caple, MBC Precision Castings Limited - U.K.	18
	2:177	59	The Development of Ceramic Shell Moulds J. Cihlar and K. Maca, Technical University of Brno - Czech Republic D. Ford and S. Leyland, Rolls-Royce plc - U.K.	17
	2:178	59	A Study of the Interaction Between, TiAl and Zircon Facecoats S. Jones and P.M. Marquis, The University of Birmingham - U.K.	17
	2:179	59	Hot Distortion Mechanisms of Moulds for Investment Casting R. Hyde, S. Jones and P.M. Marquis, The University of Birmingham - U.K. P. Withey, Rolls-Royce plc - U.K.	20

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	2:188	61	Comparison of Properties of Zircon/Alumino-Silicate Shells with Water Based and Ethyl Silicate Based Binders M. Guerra, Remet Corporation	12
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	2:191	62	Hot MOR and Creep Properties of Common Ceramic Shell Refractories Michael J. Hendricks, M.J. Peter Wang, Rick A. Filbrun, David K. Well, Ransom & Randolph	17
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<b>1999</b>	2:195	63	Hot MOR and Creep Properties of Common Ceramic Shell Refractories M.J. Hendricks, M.J. P Wang, R.A. Filbrun, D.K. Well Ransom & Randolph	25
	2:196	63	Investigation of Temperature Stress and Strength Distribution in the Manufacture of Ceramic Shell Moulds H. Rothe, I.Wagner, Prof. Dr. P.R. Sham, W.A. Meulenber, Prof. R. Telle RWTH Aachen	14
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	2:200	64	Ceramic Shell Green Strength ~ How is it Measured and What Does it Mean? Michael J. Hendricks and M.J. Peter Wang Ransom & Randolph	11
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<b>2000</b>	2:202	65	A Unique Silica Binder for Investment Shell Systems J. Vandermeer, Buntrock R&D Laboratories	8
	2:203	65	Ceramic Shell Green Strength - How is it Measured and What Does it Mean? M. J. Hendricks and P. Wang, Ransom and Randolph	9
	2:204	65	Microstructural Evolution of Investment Shell Moulds Dr. S. Jones and R. Hydge*, P. Withey**, and Prof. P.M. Marquis*** *IRC Net Shape Manuf.Lab., Birmingham University **Rolls Royce Plc *** School of Dentistry, Birmingham University, UK	14

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	2:206	65	Specific Heat of Investment Casting Shell S. Connolly, Dr. S. Jones, Prof. P.M. Marquis* and Dr. D.A. Ford**, *University of Birmingham, and **Rolls Royce Plc. UK	9
	2:207	65	Influence of Cobalt Based Inoculants on the Microstructure of Investment Cast Turbine Blades J. Großmann, M. Beck* and W. Leski** *Doncasters Precision Casting-Bochum GmbH, **Dmc <sup>2</sup> Geschäftsbereich Cerdec, Frankfurt am Main, Germany	10
	2:208	65	Observations of Mould Dimensional Changes During Gelling in the Ceramic Mould Process J. Jiang and X. Yang Liu, Integrated Manufac. Technologies Institute, National Research Council Canada	11
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	2:210	66	The Effect of Increased Porosity upon the Structure and Properties of Silica Based Core Materials S. Jones, J.W.A. Knight, P.M. Marquis, Birmingham Univ. P.A. Withey, Rolls Royce plc., Bristol, UK	13
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	2:213	66	Investigation of Silica and Non-Silica Binder Quality in use with Zircon and Zirconia Prime Dip Slurries Tom Branscomb, Buntrock Industries	5
	2:214	66	Remaso®/Adbond® 3301 - Our Fastest Polymer Enhanced System.	19
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<b>2001</b>	2:217	67	Wexcoat - A Totally New Concept in Water Based Binders D. Duffey, Wex Chemicals	23
	2:218	67	Development of Stable Alumina Slurry Stems for Investment Casting Yuan, S. Jones, IRC in Materials for High Performance Applications, The University of Birmingham, U.K. P. A. Withey, Rolls-Royce plc.	16
	2:219	67	Analysis of Phase Separation in Zircon Sand for Investment Casting Shells S. Jones, S.A. Bentley, IRC in Materials for High Performance Applications, The University of Birmingham Prof. P. Marquis, School of Dentistry, Univ. of Birmingham	17
	2:220	67	A Water Based Alternative to the use of Hydrolysed Ethyl Silicate in the Manufacture of Cores and Block Moulds for Steel Casting B. Robson, Freelance Casting Technologist	11
	2:221	67	Practical Ceramic Shell Slurry Preparation and Control Mark Bijvoet, Ransom & Randolph	10
	2:222	68	"WEXCOAT" Binder System Dan Duffey, WEX Chemicals	10
	2:223	68	Enhancing Investment Casting Slurry Life Process Stability with Microbial Control Daniel Swanson, Nalco Chemical Company	5
	2:224	68	The Effect of Polymer Level on Shell Properties Jeff Niles, Albert Bozzo, Remet Corporation	24
<b>2001</b>	2:225	68	Four-Point Bend Testing to Characterize the Strength of Ceramic Mold Shells Von L. Richards, University of Missouri at Rolla	10
	2:226	68	Effect of Fused Silica Flour Particle Size Distribution on Slurry and Shell Properties Tom Branscomb, Buntrock Industries	6

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	2:228	68	Mold Cracking Case Study Using Six Sigma Approach Brian Ferg, Concorde Castings Inc.	12
<b>2002</b>	2:229	69	Ceramic Core for Hollow Investment Castings Nipendra P. Singh and Jane M. Neubauer S & A Consulting Group LLP	7
	2:230	69	Commercial Experience with Low Sodium Binders Henri Bauwin GRACE Davison Silica/adsorbents Europe	17
	2:231	69	Chapter 2 Real Time Measurement of Viscosity In the Slurry Tank James D. Jackson, Nipendra P. Singh S&A Consulting Group Shigeyuki Satoh Ishikawajima Precision Castings Co., LTD	14
	2:232	69	Fracture Toughness of Investment Casting Shells Using Fractography Von L. Richards, Ph.D., Wolf Professor of Metals Casting Sony Mascreeen, Student Research Participant University of Missouri at Rolla	10
	2:233	69	The Effect of Seal Dips on Ceramic Shell Properties and Performance Michael J. Hendricks – Director of Technology M. J. Peter Wang Ph.D. – Product Development Manager Rick A. Filbrun – Product & Application Engineer David K. Well – Product & Application Engineer Ransom & Randolph Maumee, Ohio USA	13
<b>2003</b>	2:233	70	The Choice Between Alumino-Silicates and Fused Silica for Stucco Tom Branscomb – Technical Director Buntrock Industries, Inc.	10
	2:234	70	An Investigation into the Effect of Fibre Length Upon Mechanical & Physical Properties of Modified Shell Systems Dr. Mark Jolly – Manager University of Birmingham	36
	2:235	70	Statistical Analysis of Three-point & Four-point Bend Testing for the Characterization of Ceramic Mold Shells Thomas Hahn – Professor, Pittsburg State University	13

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	2:237	70	A Combination Shell Strength and Permeability Test Jerry D. Snow – Technical Service / Development Manager Minco, Inc.	26
	2:238	70	Fluid Bed and Rain Fall Sanded Shells – An Investigation into Fundamental Structural & Mechanical Property Differences. Dr. Samantha Jones – Project Leader The University of Birmingham	29
	2:239	70	Ceramic Shell and Slurry Characterization Albert T. Bozzo – Senior Technologist REMET Corporation	11
<b>2004</b>	2:240	71	Development of a New Refractory Material for Investment Casting of Aluminum Alloys Robert Brown, Remet, UK.; Dr. Samantha Jones, University of Birmingham	40
	2:241	71	An Alternative to Shell Building in Slots, Cores and Blind Holes Mike Hendricks, Ransom & Randolph	9
	2:242	71	Fracture Toughness, Permeability and Micro-Structure Analysis of Investment Casting Shells Von Richards PhD, University of Missouri-Rolla	15
	2:243	71	New Method of Determining Green and Fired Permeability of Investment Casting Shells Tom Branscomb, Buntrock Industries	9
<b>2005</b>	2:244	72	Development of Non-Reactive Face-Coat Materials for Investment Casting of Gamma Titanium Aluminide Alloys Dr. Samantha Jones, University of Birmingham	34
	2:245	72	Targeting and Controlling Mould Properties Through Refractory Particle Size Blending Mark Oles, Hitchiner MFG. Co., Inc.	33
	2:246	72	Measurement of Thermal Distortion in Investment Shell Material Dr. Sam Ramrattan, Western Michigan University	7
	2:247	72	A Study on Prime Coat and Stucco Alternatives to Zircon Chris Whitehouse, Minco, Inc.	37

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	2:250	73	The Effects of Slurry Decay on the Properties of Investment Casting Shells Mario Bochiechio, Pratt & Whitney	10
	2:251	73	Development & Applications of Specialty Colloidal Silica Sol for High Temperature Applications Michael Hendricks, Ransom & Randolph	19
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