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Special Section on Refractories

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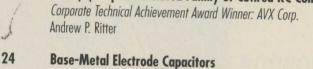
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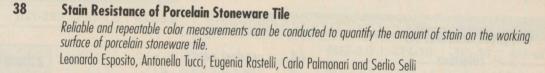
AVX |Z| Chip and Related Family of Cofired RC Components Corporate Technical Achievement Award Winner: AVX Corp. Andrew P. Ritter



Experimental observation and continuing R&D throughout the electronic ceramics industry have resulted in the development of a new class of electroceramic materials that has resulted in a decrease in manufacturing costs. Yukio Sakabe and Tom Reynolds

Self-Constrained LTCC Tape Free-sintered self-constrained LTCC tapes have shrinkage of less than one-half of conventional, sacrificial-layer constrained tapes, which translates to a significant benefit for large-format LTCC processes. Frans Lautzenhiser and Edmar Amaya

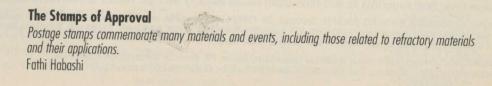
Gel Tape Casting Ceramic Sheets Alumina green tapes having high density, high fracture strength and flat surfaces were prepared using an aqueous gel-tape-casting process. Zhipeng Xie, Chunlei Ma, Yong Huang and Junhui Xiang



MgO Refractories for Glass Tank Regenerators Reflected-light and cathodoluminescence optical microscopy and scanning electron microscopy have been used to explain the creep behavior of two commercial MgO refractories. M. Velez, M. Karakus, W.L. Headrick, R.E. Moore and S.L. Cabral da Silva

Wet-Shotcrete for Refractory Castables A systematic investigation has been conducted involving parameters that control the wet-shotcrete technique for refractory castables.

R.G. Pileggi, Y.A. Marques, D. Vasques Filho, A.R. Studart and V.C. Pandolfelli 57 **Fused-Alumina Crowns** Practical experience learned from successful installation, start-up and operation of fused-alumina oxy-fuel furnace crowns under a wide range of glassmelting conditions is reported. A. Gupta and D. Clendenen





MgO Refractories...





Industrial/ Technical Training Seminars

ACerS Ceramic
Correspondence Institute
Practical Education in
Ceramic Technology
tel. 614-794-5817;
www.ceramics.org
/education/cci.asp

Porous Materials Inc.
Short Course on Advanced
Techniques for Pore
Structure Characterization
Theory & Practice
Ithaca, N.Y.
Oct. 8–11, 2002
tel. 800-825-5764;
www.pmiapp.com

Seco/Warwick Corp. Aluminum Furnace Seminar Oct. 14—17, 2002 tel. 814-332-8400; emink@seco.com

Orton Ceramic Foundation Drying & Firing of Traditional Ceramic Products Columbus, Ohio Nov. 14-15, 2002 Tel. 614-895-2663 www.ortonceramic.com

Snell Infrared Infrared Training Courses tel. 800-636-9820; info@snellinfrared.com

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calendar

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OCTOBER CONTRACTOR			
Workshop on High-Power Couplers for Superconducting Accelerators	10/30-11/1	Newport News, Va.	www.jlab.org/hpc2002/
54th Annual Convention & Exposition of the Screenprinting & Graphic Imaging Association Int'l	10/30–11/2	St. Louis	tel. 703-359-1328, convention@sgia.org
NOVEMBER MANAGEMENT	nest il-		
Glass Show	1-2	Atlantic City, N.J.	tel. 740-452-4541, www.glasshow.com
34th Int'l Sampe Technical Conference	4-7	Baltimore	tel. 626-331-0616 ext. 609, www.sampe.org
ASNT Fall Conference & Quality Testing Show 2002	4–8	San Diego	tel. 614-274-6003, www.asnt.com
ACerS Southwest Section Fall Meeting	6–8	Fort Worth, Texas	Michael Shipley, tel. 817-244-9191, mike.shipley@hansonamerica.com
Imaps Advanced Technology Workshop on Biomedical Electronics & Application	13–15 ns	Baltimore	www.imaps.org
Gorham Conference on Advanced Coatings and Surface Systems for Cutting Tools & Wear Parts	18–20	Atlanta	tel. 207-892-5445, www.goradv.com
EPM, CeramTech 2002	19-22	Hanoi, Vietnam	tel. 844-8-25-76-07, mikemanh@fpt.vn
2nd Int'l Symposium on Advanced Ceramics	19–23	Shanghai, China	www.appchem.waseda.ac.jp/~inorg/jsps _124/index.html
DECEMBER			minipole of the mon
23rd Army Science Conference	2-5	Orlando, Fla.	www.asc2002.com
2003	1		
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ACerS Engineering Ceramics Division 27th Annual Int'l Conference & Exposition on Advanced Ceramics & Composites in conjunction with the ACerS Electronics Division Fall Meeting	26–31	Cocoa Beach, Fla.	Christine Schnitzer, tel. 614-794-5819, cschnitzer@acers.org
ACerS Electronics Division Fall Meeting in conjunction with the ACerS Engineering Ceramics Division 27th Annual Int'l Conference & Exposition on Advanced Ceramics & Composites	26–31	Cocoa Beach, Fla.	Christine Schnitzer, tel. 614-794-5819, cschnitzer@acers.org
Thermal Solutions® Conference	27–30	Tampa/Clearwater Beach, Fla.	tel. 802-229-9820, www.thermal-solutions.com
FEBRUARY MANAGEMENT	60 85-5	American de 19	males and one said and an analysis
2nd Int'l Brazing & Soldering Conference	17–19	San Diego	tel. 800-443-9353, www.aws.org
8th Int'l Symposium on Fracture Mechanics of Ceramics	25–28	Houston	fmc8.egr.uh.edu
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Pittcon 2003	0.14	Orlando Ela	tol 412 925 2220 unununittaan arr
Ceramics and Ceramic Technologies	9–14 16–18	Orlando, Fla. New Delhi, India	tel. 412-825-3220, www.pittcon.org tel. 91-11-5707715, info@servintonline.com
Exhibition & Conference in conjunction with Glass Processing & Glazing Exhibition & Conference	10-10	New Beilli, Illula	tot. 91-11-9707719, intoesservintonine.com
Coverings 2003	24-27	Orlando, Fla.	tel. 800-881-9400, info@coverings.com
4th Int'l Symposium on Refractories	24-28	Dalian, China	tel. 86-371-776-6196, zxchg@371.net
SGCD Deco 2003 Seminar & Exposition	3/29-4/1	Nashville, Tenn.	tel. 301-951-3933, www.sgcd.org
APRIL			
Ceramic Interconnect Technology: The Next Generation	8–9	Denver	www.imaps.org/callfor/ceramic2003.htm
5th China Int'l Glass Industrial Technology & Machinery Exhibition	8–11	Shanghai, China	tel. 86-10-6899-2424, www.ceramsoc.com
CONCIM 2003 Conference on	8-12	Bonn,	tel. 49-228-732926,
Non-Crystalline Inorganic Materials	The state of	Germany	www.uni-bonn.de/concim2003
Int'l Ceramic Exhibition 2003	9–11	Tokyo	www.cnt-inc.co.jp/ceramics
ACerS 105th Annual Meeting	27-30	Nashville, Tenn.	tel. 614-794-5880,
& Exposition 8th Int'l Symposium on Solid	4/27-5/2	Paris	www.ceramics.org tel. 509-375-6738,
Oxide Fuel Cells	1121-512	Turio de la companya	singhal@pnl.gov