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Principle Interests: Relationships among powder characteristics and processing parameters, microstructural development and properties of ceramic materials, ball clay and kaolin processing, colloidal processing, mineral processing, silicate ceramics, silicon carbide ceramics, boron carbide based ceramics, ceramic manufacturing, ceramic coatings, ceramic armor

Education:

Ph.D., Ceramic Science, Rutgers University, 1984.
M.S., Ceramic Science, Rutgers University, 1982.
B.S., Ceramic Science, Rutgers University, 1980.

Professional Experience:

1. 2022-Present: Lead, US Army Research Laboratory Cooperative Agreement, Synthesis and Processing of Ultrahigh Temperature Ceramics
2. 2011-2022: Ceramic Lead, US Army Research Laboratory, MEDE (Materials in Extreme Dynamic Environments) (2011-present)
3. 2004-Present: Executive Director, Ceramic and Composite Materials Center, NSF I/UCRC, (2004-Present)
4. 2005-2011: Program Manager, US Army – Material Center of Excellence In Lightweight Ceramic Armor (2005-2011)
5. Director, Center for Ceramic Research, Rutgers University (2004-Present)
6. Professor, Rutgers University (2000-Present)
7. Associate Director, Center for Ceramic Research, Rutgers University (2000-2004)
8. Undergraduate Director, Rutgers University (1991-2000, 2002-2004)
9. Director, Ceramic Casting Technology Program - Cooperative Program (1988-1994)
10. Associate Professor, Rutgers University (1992)
11. Assistant Professor, Rutgers University (1986-1992)
12. Research Assistant Professor, Rutgers University (1984-1986)

Society Memberships:

American Ceramic Society	European Ceramic Society	Mexican Ceramic Society
Materials Research Society	Clay Minerals Society	Keramos
NICE	Sigma Xi	Ceramic Association of NJ
SAMPE	Porcelain Enamel Institute	ASM and SPIE

Professional and Scholarly Distinctions:

1. Distinguished Faculty Recognition: Presented Rutgers Football Game, 2018.
2. Best Poster Award: 2019 Mach Conference on Extreme Materials: I. Maher and R.A. Haber, Evaluating and Visualizing the Effect of Binders on the Green Strength of Dry-Pressed Alumina,
3. Best Poster Award: 2018 Mach Conference on Extreme Materials: M. C. Schaefer, V. Domnich, R. A. Haber, Studying Indentation-Induced Amorphization in Boron Carbides of Varying Stoichiometry
4. Best Poster Award: 2017 Mach Conference on Extreme Materials: M. Schaefer, V. Domnich, R. A. Haber, Hardness and indentation-induced amorphization in B_xC (x = 4.1... 9.4),

5. Best Paper Award: 2012 International Conference on Advanced Ceramics and Composites: Submicron boron carbide synthesis by rapid carbothermal reduction, with S.Miller, F.Toksoy and W. Rafaniello
6. I.A. Andrews Award (Man of the Year Award and Keynote Lecturer)– Porcelain Enamel Institute, 2006
7. Recipient, Man of the Year - Ceramic Association of New Jersey for 2005
8. Malcolm G. McLaren Award-Mexican Ceramic Society, 1997, 1999 and 2001 (Three Time: Man of the Year and Keynote Lecturer)
9. Recipient, Schwartzwalder-Professional Achievement in Ceramic Engineering Award, 2000
10. President, Ceramic Manufacturers Council, American Ceramic Society (2000)
11. Fellow, American Ceramic Society, 1998
12. Vice President, American Ceramic Society (1998)
13. Trustee, Materials and Equipment Division, American Ceramic Society (1997)
14. Chair, Materials and Equipment Division, American Ceramic Society (1996)
15. Chair, Whitewares Division, American Ceramic Society (1992)
16. John Marquis Award of the American Ceramic Society, 1991 (Outstanding Paper in Whitewares)

Publications

Journals

2024

1. Y.Z.Ayguzar, R.A.Haber, The role of carbon addition on the properties of boron carbide-silicon carbide composites, *Ceramic International*, doi.org/10.1016 (2024)
2. Y.Z.Ayguzar, M.Koelle, R.A.Haber, Investigation of the effect of impurity of precursor materials on Si-doped boron carbide, *Applied Ceramic Technology*, doi.org/10.1111.14655, 2024

2023

1. T.Prikhna, Lokatkina,A., P. Barvitskyi, Karpets, M.V., Ponom, S.S., Bondar, A.A., Buchner, N, Werner, J., Kluge,R., Moshchil, V., Borymshi, O., Devin, L., Rychev, S. Haber R., Yasar, Z., Matovic, B, Rucki M., Prisyazhna, O.V., Structure, Mechanical Properties, and High-Temperature Stability of ZrB₂-and HfB₂- Based Materials, *J.Superhard Mat.*, 45, 5, 321-335, 2023.
2. A.Zare, P.Maahotra, Q.Yang, K.Christian, J.Du, R.A.Haber, M.Shaeffer, K.T.Ramesh, The Effects of carbonaceous inclusions and their distribution on dynamic failure processes in boron carbide ceramics, *J.Am.Cer.Soc*, 106, 8, 4831-4851. 2023
3. E. McAleer, M. Alazzawi, C.Hwang, J.M. LaManna, D.Johnson, B, Khaykovich, R.A. Haber, E.K.Akdogan, Binder removal from ceramic stereolithography green bodies: A neutron imaging and thermal analysis study, *J.Am.Cer.Soc*, 106, 7, 4399-4410, 2023
4. Y.Z.Ayguzar, V.DeLucca, R.A.Haber, Investigation of the effect of pressure, sintering temperature and time on silicon carbide microstructures, *Proc and Appl Cer.* 17, 2, 189-196, 2023
5. X.Sun, B.S.Kuwik, Q.Yang, S.Chocron, R.C.Hurley, R.A.Haber, J.C.LaSalvia, K.T.Ramesh, Effects of particle size, shape and loading rate on the normal compaction of an advanced granular ceramic, *Powder Tech.*, 417, 118243, 2023.
6. Mustafa K. Alazzawi *, Chawon Hwang, Victoria R. Tsarkova, Richard A. Haber, The feature resolution and dimensional control in freeform solidification of alumina systems by stereolithography. *Ceramics*, 6, 2036-2052, 2023.
7. K.L.House, K.H.Christian, T.J.Enge, H.Pacheco, R.A.Haber, D.M.O"Carroll, Characterization of nanoscale morphology and mechanical properties of conjugated polymer thin films dynamically exposed to a secondary solvent, *Polymers*, doi/org/10.1016, 126625, 2023

2022

1. Q. Yang, C.J. Marvel, Y. Shen, M. He, J. Du, C. Hwang, E.D. Gronske, K.Y. Xie, S.R. Murcurio, Q. An, M.P. Harmer, K.J. Hemker, R.A. Haber, Activating dislocation mediated plasticity in boron carbide through Al-doping, *Acta Materialia*, 241, 118412, 2022.
2. K.Y. Xie, Q. Yang, C.J. Marvel, M. He, J.C. LaSalvia, C. Hwang, R.A. Haber, K.J. Hemker, Experimental observations of amorphization in multiple generations of boron carbide, *J. Am. Cer. Soc.*, 105, 5, 3008-3029, 2022.
3. Z.A. Yasar, A.M. Celik, R.A. Haber, Improving fracture toughness of B₄C-SiC composites by TiB₂ addition, *Int. J. Refr. Metals and Hard Materials*, 108, 105930, 2022.
4. H. Zhang, M. Ornek, S. Lahkar, S. Song, X. Wang, R.A. Haber, K.M. Reddy, Enhanced densification and mechanical properties of B-boron by in-situ formed boron-rich oxide, *J. Mat. Sci. and Tech.* 99, 148-160, 2022.
5. C. Hwang, J. Du, A.M. Celik, K. Christian, Q. An, M.C. Schaefer, K.Y. Xie, J.C. LaSalvia, K.J. Hemker, W.A. Goddard III, R.A. Haber, Addressing amorphization and transgranular fracture of B₄C through Si doping and TiB₂ microparticle reinforcing, *J. Am. Cer. Soc.*, 105, 5, 2959-2977, 2022.
6. J. Du, K. Christian, Q. Yang, C. Hwang, E. McAleer, R.A. Haber, Thermal Stability of dopants in boron carbide, *Scripta Materialia*, 206, 114263, 2022.
7. C.J. Marvel, Q. Yang, S.D. Walck, K.Y. Xie, K.D. Behler, J.C. LaSalvia, M. Watanabe, R.A. Haber, M.P. Harmer, Applications of analytical electron microscopy to guide the design of boron carbide, *J. Am. Cer. Soc.*, 105, 5, 2990-3007, 2022.
8. Z.A. Yasar, V.A. DeLucca, R.A. Haber, The influence of carbon source and content on structure and mechanical properties of SiC processed via spark plasma sintering method, *Processing and Appl. of Cer.* 16, 4, 384-390, 2022.
9. C.J. Marvel, K.D. Behler, J.C. LaSalvia, R.A. Haber, M.P. Harmer, Grain boundary segregation in Si-doped B-based ceramics and its effect on grain boundary cohesion, *Acta Mat.* 227, 117684, 2022.

2021

1. MK Alazzawi, B Beyoglu, FF Maniaci, RA Haber, Degree of dispersion assessments of highly filled stereolithography suspension using fineness of grind measurement, *Powder Technology* 382, 318-330, 2021
2. Zeynep Aygüzer Yaşar¹, Vincent A. DeLucca², Richard A. Haber^{1, Yhr} Effect of Boron Carbide Additive and Sintering Temperature - Dwelling Time on Silicon Carbide Properties, Submitted *Ceramic International*. 47(5), 7177-7182, 2021
3. ZA Yaşar, VA DeLucca, RA Haber, Effect of boron carbide additive and sintering temperature- Dwelling time on silicon carbide properties, *Ceramics International* 47 (5), 7177-7182, 2021
4. ZA Yaşar, RA Haber, Evaluating the role of uniformity on the properties of B₄C-SiC composites, *Ceramics International* 47 (4), 4838-4844, 2021
5. Alazzawi, M. K., Beyoglu, B., Haber, R. A., (2021). A Study in a Tape Casting based Stereolithography Apparatus: Role of Layer Thickness and Casting Shear Rate. *Journal of Manufacturing Processes*, 64, 1196-1203.
6. I. Petrusha, C. Hwang, T. Prikhna, M. Örneke, D. Zhao, K. Y. Xie, R. A. Haber, M. Karpets, S. Ponomaryov, S. Dub, V. Moshchil, A Novel Route to Superhard Nanocrystalline Cubic Boron Nitride: Emulsion Detonation and High-Pressure High-Temperature Transformation-Assisted Consolidation, *J. Eur. Ceram. Soc.*, 41(11) 5505-5511 (2021)
7. C. Hwang, J. Du, Q. Yang, A. M. Celik, K. Christian, Q. An, M. C. Schaefer, K. Y. Xie, J. C. LaSalvia, K. J. Hemker, W. A. Goddard III, R. A. Haber, Addressing Amorphization and Transgranular Fracture of Boron Carbide through Atomic Doping and Microparticle Reinforcing, *J. Am. Ceram. Soc. Submitted*.

8. J. Du, K. Christian, Q.Y. Yang, C. Hwang E. McAleer R.A. Haber, Thermal stability of dopants in boron carbide, *Scripta Materialia*, Volume 206, 1 January 2022, 114263.
9. J. Du, Q.R. Yang, C. Hwang, L.N. Ma, S. DiPietro, L.C. Klein, K.Y. Xie, K.J. Hemker, R.A. Haber, Silicon doping of grain boundary of boron carbide (B₄C) for improved amorphization resistance (*Submitted J.European Cer. Soc*)
10. J. Du, K. Christian, Q.Y. Yang, C. Hwang, R.A. Haber, Rapid reaction and densification of silicon/boron co-doped boron carbide and its composite with titanium diboride for improved hardness and toughness (*Submitted J.European Cer. Soc*)
11. Rosenberger, A., Ku, N., Vargas-Gonzalez, L., Alazzawi, M., & Haber, R. (2021). Rheology and processing of UV-curable textured alumina inks for additive manufacturing. *International Journal of Applied Ceramic Technology*. 00:1-9; DOI:10.1111/ijac.13784 (2021)
12. Alazzawi, M., Kondapalli, S., Haber, R., Degree of Dispersion and Cure Depth of Photocurable Ceramic and Metal Suspensions. Photocurable alumina and silver suspensions: Cure depth in highly agglomerated and dispersed systems. *Journal of Material Science*, 30, 4275-4286, DOI:10.1557/s43578-021-00398-w (2021)
13. K. Y. Xie, Q. Yang, C. J. Marvel, M. He, J. C. LaSalvia, M. P. Harmer, C. Hwang, R. A. Haber, K. J. Hemker, Experimental observations of amorphization in multiple generations of boron carbide, *J. Am. Ceram. Soc. Accepted*.
14. ZA Yasar, RA Haber, Effect of Sintering Temperature and Applied Pressure on the Properties of Boron Carbide-Silicon Carbide Composites, *Journal of Superhard Materials*, 43, 392–404 (2021)
15. ZA Yasar, VA DeLucca, R Haber, Effect of carbon source on the properties of dense α -SiC, *Materials Research Express*, 8 125601(2021)
16. Lokatkina, A., T.Prikhna, V.Moshchil, P. Barvitskyi, O.Borimsky, L.Devin, S.Ponomaryov, R.Haber, T.Talako, A.Bondar, Influence of heating to high temperatures on mechanical properties of boride based refractory materials, *Tech Audit and Prod. Reserves*, 2, 1, 58, 21-25, 2021.

2020

1. S.Xiang, Q.Yang, R.Haber, H.M Lien, K.Shial, E.Gronske, K.Xie, The effect of boron and aluminum additions on the microstructure of arc melted boron carbide, *J.Am Cer. Soc.*, 103 (6), 3453-3457, 2020
2. Z,A,Yasar and R.Haber, The Effect of Carbon Addition and Mixture Method on the Microstructure and Mechanical Properties of Silicon Carbide, *Materials* 2020, 13, 3768, 2020
3. Q.Yang, A.M.Celik, J.Du, J.LaSalvia, C.Hwang, R.A.Haber, Advancing the mechanical properties of Si/B/co-doped boron carbide through TiB₂ reinforcement, *Materials Letters*, 266, 127480 (2020)
4. Z,A,Yasar and R.Haber, Effect of Acid Etching time and concentration of oxygen content for powder on the microstructure and elastic properties of silicon carbide densified by spark plasma sintering method, *Int. J.Mat.Sci and Appl*. 9 (1), 7, 2020
5. Yang Q, Celik AM, Hwang C, Du J, LaSalvia JC, Haber RA, Advancing mechanical properties of Si/B co-doped boron carbide through TiB₂ reinforcement, *Materials Letters*, 266, 1-5, 2020
6. M.C. Schaefer, R.A. Haber, Amorphization Mitigation in Boron-Rich Boron Carbides Quantified by Raman Spectroscopy. *Ceramics* 2020, 3, 297-305 2020.
7. M. K. Alazzawi, C. L. Rohn, B. Beyoglu, R. A. Haber, "Rheological assessment of cohesive energy density of highly concentrated stereolithography suspensions," *Ceramics International*, 46, 6, 8473-8477, 2020.

8. Marvel, C., Behler, K., Domnich, V., LaSalvia, J., Haber, R., Watanabe, M., & Harmer, M. (2020). Recent Developments of ζ -factor Microanalysis and Its Application to Armor Ceramics. *Microscopy and Microanalysis*, 1-4. doi:10.1017/S1431927620016566
 9. Tetiana Prikhna, Anastasiia Lokatkina, Viktor Moshchil, Pavlo Barvitskiy, Oleksandr Borimsky, Semyon Ponomaryov, Richard Haber, Tatiana Talako, Investigation of mechanical characteristics of materials based on refractory borides, Technology audit and production reserves 6 (1 (56)), 40-44, 2020
 10. TA Prikhna, PP Barvitskiy, V Domnich, VB Muratov, SN Dub, MV Karpets, VE Moshchil, R Haber, Dense aluminum dodecaboride-Based ceramics with enhanced mechanical properties, European Powder Metallurgy Congress and Exhibition, Euro PM 2018, 2020
- 2019
1. S.Xiang, L.Ma, B.Yang, Y.Dieudonne, G.M.Pharr, J.Lu, D.Yadav, C.Hwang, J.LaSalvia, R.A.Haber, K.J.Hemker, K.Y.Xie, Tuning the deformation mechanisms of boron carbide via silicon doping, *Science Advances*, 5, 1-6, 2019
 2. Christopher Marvel, Richard Haber, Vlad Domnich, Jerry LaSalvia, Kristopher Behler, Martin Harmer, Masashi Watanabe, "Extending ζ -factor microanalysis to boron-rich ceramics: Quantification of bulk stoichiometry and grain boundary composition", *UltraMicroscopy* 202, 163-172, 2019
 3. Sisi Xiang, Luoning Ma, Bruce Yang, Kevin J. Hemker, Richard Haber, Kelvin Xie, "Revealing the microstructural information of the quasi-plastic zone in a boron carbide using the advanced precession electron diffraction technique", *Microscopy and Microanalysis* 25 (S2), 788-789, 2019
 4. C. Hwang, Q. Yang, S. Xiang, V. Domnich, A. U. Khan, K. Y. Xie, K. J. Hemker, R. A. Haber, "Fabrication of dense B4C-preceramic polymer derived SiC composite," *J. Eur. Ceram. Soc.*, 39(4) 718-725 (2019)
 5. M.Örnek, K.Wang, S.Ziang, C.Hwang, K.Xie, R.Haber, Molten salt synthesis of highly ordered and nanostructured hexagonal boron nitride, *Diamond and Related Materials* 93, 179-185, 2019
 6. M Örnek, C Hwang, S Xiang, KY Xie, A Etzold, B Yang, R A Haber, Effect of synthesis conditions of BCNO on the formation and structural ordering of boron nitride at high temperatures, *J.Solid State Chemistry*, 269, 212-219, 2019
 7. M.Fatih, Toksoy, R.A.Haber, Modification of Commercial Boron Carbide Powder by Using Rapid Carbothermal Reduction, *International Journal of Applied Ceramic Technology*, 16 (3), 1120-1125, 2019
 8. C. Hwang, S. DiPietro, K. Y. Xie, Q. Yang, A. M. Celik, A. U. Khan, V. Domnich, S. Walck, K. J. Hemker, R. A. Haber, "Small amount TiB2 addition into B4C through sputter deposition and hot pressing," *J. Am. Ceram. Soc.*, 102 4421-4426 (2019).
 9. Ankur Chauhan, Mark C. Schaefer, Richard A. Haber, Kevin Hemker, Experimental Observations of Amorphization in Stoichiometric and Boron-Rich Boron Carbide. *Acta Materialia*, 2019. 181: p. 207-215.
 10. Yang Q, Hwang C, Khan AU, Domnich V, Gronske ED, Haber RA. Anisotropy and residual stress in B4C-ZrB2 eutectic. *Materials Characterization*. 155, 109797, 2019.
 11. Yang Q, Hwang C, Marvel CJ, Chauhan A, Domnich V, Khan AU, LaSalvia JC, Harmer MP, Hemker KJ, Haber RA. Fabrication and characterization of arc melted Si/B co-doped boron carbide. *Journal of the European Ceramic Society*. 39(16), 5156-66, 2019.
 12. Tetiana Prikhna, Pavlo Barvitskiy, Richard Haber, Volodymyr Kushch, Leonid Devin, Sergey Dub, Myroslav Karpets, Semyon Ponomarov, Florian Kongoli, Fernand Marquis, Modeling, Structure and Properties of Aluminum Dodecaboride and Boron Carbide-Based Ceramics, Sustainable Industrial Processing Summit, 11, 169-170, 2019

13. TA Prikhna, PP Barvitskiy, AV Maznaya, VB Muratov, LN Devin, AV Neshpor, V Domnich, Richard Haber, MV Karpets, EV Samus, SN Dub, VE Moshchil, Lightweight ceramics based on aluminum dodecaboride, boron carbide and self-bonded silicon carbide, Ceramic Intl, 45, 7, 9580-9588, 2019

2018

1. Tetiana Prikhna, Pavlo Barvitskiy, Viktor Moshchil, Vladislav Domnich, Fernand Marquis, Myroslav Karpets, Sergey Dub, Semyon Ponomarov, Richard Haber, Hot Pressed Aluminum Dodecaboride-and Boron Carbide-based Ceramics, Sustainable Industrial Processing Summit 6, 225-226, 2019.
2. TA Prikhna, PP Barvitskiy, SN Dub, VB Sverdun, RA Haber, V Domnich, MV Karpets, SS Ponomaryov, VE Moshchil, VB Muratov, Sintering, Structure and Properties of AlB₁₂-Based Ceramics, Proceedings of the 12th Pacific Rim Conference on Ceramic and Glass Technology: Ceramic Transactions, 264, 111-119, 2018
3. CJ Marvel, A Etzold, V Domnich, KD Behler, JC LaSalvia, RA Haber, ζ -Factor Development and Quantification of a Boron Carbide and Silicon Hexaboride Diffusion Couple, Microscopy and Microanalysis 24 (S1), 742-743, 2018.
4. Maher, I. P. and Haber, R. A. Green Microstructural Visualization of Dry-Pressed Spray-Dried Alumina (Al₂O₃). Materials Sciences and Applications, 9 (12), 2018.
5. Z.Ayguzer Yasar, R.A.Haber, Influence of oxygen content on the microstructure and mechanical properties of SPS SiC, Ceramics International, 44(18), 23248-23253, 2018
6. M.Ornek, C.Hwang, K.M.Reddy, V. Domnich, S.L.Miller, E.K.Akdogan, K.J.Hemker, R.A.Haber, Formation of BN from BCNO and the development of ordered BN structures: I. Synthesis of BCNO with various chemistries and degrees of crystallinity and reaction mechanism on BN formation, Ceramics International, 44, 13, 14980. 2018.
7. C.Hwang, M.Ornek, K.M.Reddy, V. Domnich, S.L.Miller, K.J.Hemker, R.A.Haber, Effect of synthesis conditions of BCNO on the formation and structural ordering of BN at 1200C and 1 GPa, Diamond and Related Materials, 87, 156, 2018.
8. Atta U Khan, Anthony M Etzold, Xiaokun Yang, Vladislav Domnich, Kelvin Y Xie, Chawon Hwang, Kristopher D Behler, Mingwei Chen, Qi An, Jerry C LaSalvia, Kevin J Hemker, William A Goddard III, Richard A Haber, Locating Si atoms in Si-Doped Boron Carbide: a Route to Understand Amorphization Mitigation Mechanism, Acta Materialia 157, 106-113, 2018.
9. M. Örneke, C. Hwang, K.Y. Xie, S. Pratas, J.Calado, A. Burgess, V. Domnich, K.J. Hemker, R.A. Haber, Formation of metastable wurtzite phase boron nitride by emulsion detonation synthesis, Journal of the American Ceramic Society, 101 (8) 3276-3281, (2018).
10. M. Örneke, K.M. Reddy, C. Hwang, V. Domnich, A. Burgess, S. Pratas, J.Calado, K. Y. Xie, S. L. Miller, K.J. Hemker, R.A. Haber, Observations of explosion phase boron nitride formed by emulsion detonation synthesis, Scripta Materialia, 145C (2018) pp. 126-130.
11. TA Prikhna, RA Haber, PP Barvitskiy, VB Sverdun, SN Dub, VB Muratov, V Domnich, MV Karpets, VE Moshchil, MG Loshak, VV Kovylaev, OO Vasiliev, Synthesis, Sintering, Structure and Properties Of AlB₁₂C₂-Based Materials, Proceedings of the 41st International Conference on Advanced Ceramics and Composites: Ceramic Engineering and Science Proceedings, Volume 38, Issue 2, 195-203, 2018

2017

1. L.Ma, K.Y.Xie, M.F.Toksoy, K.Kuwelkar, R.A.Haber, K.J. Hemker, The effect of Si on the microstructure and mechanical properties of spark plasma sintered boron carbide, Materials Characterization 134, 274-278, 2017

2. A.U. Khan, V. Domnich, and R.A. Haber, Boron carbide based ceramics: Problems and possible solutions, *Am. Ceram. Soc. Bull.* **96** (6) 30 (2017).
 3. Alazzawi, M. K., Murali, S., & Haber, R. A. (2017). Visualizing the Effect of Extrusion Velocity on the Spatial Variation of Porosity in a Titanium Dioxide/Binder System. *Materials Sciences and Applications*, 8(13), 933.
 4. Alazzawi, M., and R. Haber. "The Effect of Paste Water Content on the Green Microstructure of Extruded Titanium Dioxide." *Processing, Properties, and Design of Advanced Ceramics and Composites: Ceramic Transactions* 261, 3-13, 2017
 5. Z.Xie, V.DeLucca, R.Haber, D.Restrepo, J.Todd, R.Blair, N.Orlovshaya, Synthesis of AlMgB₁₄, *Advances in Applied Ceramics*, 341-347, 2017
 6. Maher, I. P., and R. A. Haber. "Compaction Plasticity of Spray Dried Alumina Granules to form Microstructural Uniformity and Green Strength." *Processing, Properties, and Design of Advanced Ceramics and Composites II* 261, 15 (2017)
 7. K.Xie, V.Domnich, L. Farbaniec, B.Chen, K.Kuwelkar, L.Ma, J.McCauley, R.Haber, K.Ramesh, M.Chen, K.Hemker, Microstructural Characterization of boron-rich, boron carbide, *Acta Materialia*, 136, 202-214, 2017
 8. M. F. Toksoy, R. A. Haber, W. Rafaniello, K.Xie, K. Hemker, Densification and Characterization of Rapid Carbothermal Synthesized Boron Carbide, *International Journal of Applied Ceramic Technology* 14 (3) 443-453, 2017
 9. Z.A.Yasar, R.A.Haber, W.Rafaniello, SPS sintered Silicon Carbide-Boron Carbide Composites, *Advances in Armor*, 608, 13, 2017
 10. V. DeLucca, R.A.Haber, The effect of powder oxygen content on the morphology of silicon carbide densified by spark plasma sintering, *Advances in Armor*, 608, 39, 2017
- 2016
1. Q. An, W. A. Goddard III, K. Y. Xie, G.-D. Sim, K. J. Hemker, T. Munhollon, M. F. Toksoy, R. A. Haber, Superstrength through Nanotwinning, *Nano Letters*, 16(12, 7573-7579, 2016
 2. KY Xie, K Kuwelkar, RA Haber, JC LaSalvia, KJ Hemker, Microstructural Characterization of a Commercial Hot-Pressed Boron Carbide Armor Plate, , *Journal of the American Ceramic Society* 99 (8), 2834-2841, 2016
 3. K.M.Reddy, M.Ornek, C.Hwang, S.L.Miller, A.Burgess, W.E.Mayo, R.A.Haber K.J.Hemker, Observations of nanocrystalline cubic boron nitride formed with plasma spraying, *Acta. Mater.*, 116, 155-165, 2016
 4. B.J.Groth, S.M.Langan, R.A.Haber, A.B.Mann, "Relating residual stresses to machining and finishing in silicon carbide", *Ceramic International*, (42) 799-807 (2016).
 5. J.Prati, R.Haber, M.J.Matthewson, Numerical Approach to Obtaining Thermal Degradation Kinetics for 3D Compact Binder Removal, *MS&T16 Processings*, 1215-1221, 2016
 6. Metin Omek, Chawon Hwang, Vladislav Domnich, Steven L Miller, William E Mayo, Richard Haber, Synthesis and crystallization behavior of amorphous boron nitride, 13th Armor Ceramics Symposium-39th International Conference on Advanced Ceramics and Composites, ICACC 2015, 75-81, 2016
 7. Y. Gao, Anthony Etzold, T. Munhollon, W. Rafaniello, R. Haber, "Processing Factors Influencing the Free Carbon Contents in Boron Carbide Powder by Rapid Carbothermal Reduction", *Diamond & Related Materials*, 61, 14-20, 2016
- 2015
1. Xie KY, An Q, Toksoy MF, McCauley JW, Haber RA, Goddard WA III, Hemker KJ. Atomic-Level Understanding of "Asymmetric Twins" in Boron Carbide. *Physical Review Letters*, 2015, 115, 17, 175501, 2015.
 2. N.Ku, C.Hare, M.Ghadiri, M.Murtagh, R.A.Haber, "Effect of mechanical vibration on the size and microstructure of titania granules produced by auto-granulation", *Powder Technology* 286, 223-229, (2015).

3. F. Nicodemi, R.A.Haber, Effect of agglomerate size on the extrudability of titania paste, *Advances in Applied Ceramics*, 114, 5, 243-249, 2015
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33. G. Hannon, R. Haber and J. Wachtman, "Fracture and toughening in particulate reinforced glass composites: the effect of microstructural variation", *Ceramic Materials and Components for Heat Engines*, *Am. Cer. Soc.*, 927-935, 1988.
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35. K. Hatton, J. Wachtman, R. Haber and B. Wilkens, "Compositional determination of silicon oxynitride films", with, *MRS Proc.*, 77, 715-720, 1987.
36. M. Gruninger and R. Haber "Mechanical and thermomechanical protection by alumina sol-gel coatings", *MRS Proc.*, 54, 823-828, 1986.
37. J.B. Wachtman, Jr. and R. Haber, "Ceramic Films and Coatings", *Chemical Engineering Progress*, 82 [1] 39-47, 1986.
38. R. Haber and R. McCauley "Problems with glazes containing heavy metals", with R. McCauley, *Interceram*, 32, 5, 1-4, 1983.
39. L. Klein and R. Haber "Color correction of a cone 9 glaze by pigment additions", *Interceram*, 31, 5, 1-5, 1985.
40. R. Haber, K. Wilfinger and R. McCauley, "Stains and coloring agents", *Interceram*, 34, 5, 1-4, 1985.

Journal Papers Submitted but not accepted:

Edited Books

1. "Ceramic Powder Science and Technology", Edited with G.L. Messing, K.S. Mazdizyasni and J.W. McCauley, Published by *Am. Cer. Soc.*, 1987.
2. "Ceramic Films and Coatings", edited with J.B. Wachtman, Jr., *Noyes Pub.*, 1993.

Contributed Chapters

1. "Prefiring of Ceramic Powders", *Encycl. of Mat. Sci. and Eng.*, Pergamon Press, 1986.
2. "Ceramics, Ceramic-Metal Systems" with V.A. Greenhut, *Ullmann's Encycl. of Ind. Chem.*, Vol. A6, 55-77, 1986.
3. "Alumina-Glass Composites: Origins of Porosity and Methods of Removal", with J.Wachtman and G.Hannon, *Chemical Engineering Education in a Changing Environment*, S.Sandler and B.Findlayson Editors, United Engineering Foundation, 265-279, 1988.
4. "Advanced Ceramics Involving Alumina" with J.B. Wachtman, Jr., *Alumina Chemicals, Science and Technology Handbook*, American Ceramic Society, 329-337, 1990
5. "Aluminum/alumina joining", *Metal-Ceramic Joining*, TMS, 119-133, 1990.
6. "Engineering Properties of Glass-Matrix Composites", *ASM Engineered Materials Handbook*, ASM Materials Park, OH, 858-870, 1991.
7. "Overview of Traditional Ceramics", with P. Smith, *ASM Engineered Materials Handbook*, ASM Materials Park, OH, 3-16, 1991.
8. "Rheometry and Rheology of Ceramics", *Clay Water Systems II*, Edited by E. Westbrook, 457-489, 1992
9. "Ceramic Films and Coatings - An Overview", with J.B. Wachtman, Jr., *Ceramic Films and Coatings*, Noyes Pub., 1-21, 1993.
10. "Slip Casting and Colloidal Forming", with W. Fischer, *ASM Engineering Handbook*, 457-490, ASM Materials Park, OH, 1997

Presentations

1982

1. R.A.Haber and V.A.Greenhut, "Evaluation of Alumina/Glass Ceramics", 84th Annual Meeting, American Ceramic Society, Pittsburgh
2. R.A.Haber, A. Goodman and V.A.Greenhut, "Analysis of Pyroplastic Deformation of Alumina Glass Ceramics", 84th Annual Meeting, American Ceramic Society, Pittsburgh
3. R.Haber, "Alumina/Glass Bonding", INVITED, Metropolitan Section, American Ceramic Society

1983

1. R.A.Haber, R.L.Lehman and E.J.Smoke, "Pressure Casting High Alumina Ceramics", 85th Annual Meeting, American Ceramic Society, Chicago
2. R.A. Haber and V.A.Greenhut, "Enhanced Metal Bonding with Borosilicate and Phosphate Bonded Alumina", 85th Annual Meeting, American Ceramic Society, Chicago

1984

1. W.Fischer and R.A.Haber, "Pressure Casting: Rheological Variation Effects and Its Use as Predictive Tool", 86th Annual Meeting, American Ceramic Society, Indianapolis
2. R.A.Haber, "Problems Found Using Polymeric Slip Cast Molds", INVITED, 86th Annual Meeting, American Ceramic Society, Indianapolis
3. J. Martin and R.Haber, "Understanding Colloidal Modifiers", 86th Annual Meeting, American Ceramic Society, Indianapolis
4. F.Mazzeo, D.Shemo and R.Haber, "Effect of Different Molecular Weight Polyacrylate Dispersant on the Rheological and Casting Properties of Alumina", 86th Annual Meeting, American Ceramic Society, Indianapolis
5. R.Haber, "The Use of College and Outside Research Services for Assistance with Manufacturing Issues", INVITED, 86th Annual Meeting, American Ceramic Society, Indianapolis
6. R.Haber, "Pressure Casting Oxides", INVITED, Metropolitan Section, American Ceramic Society

1985

1. R.Haber, "Advances in Powder Processing", INVITED, ASM Annual Meeting, Orlando

2. R.Haber, "Prereacted Ceramic Materials", INVITED, Metropolitan Section, American Ceramic Society Fall Meeting, Springfield, NJ

3. R.Haber, "Advanced Ceramic Materials", INVITED, SAMPE – New York Section Fall Meeting, Bridgewater, NJ

1986

1. R.Haber, M.Cohn and G.Hannon, "Effect of Particle Matrix Reaction on the Strength of ZrO₂ Glass Composites", 88th Annual Meeting, American Ceramic Society, Chicago

2. R.Haber and V.Greenhut, "Prereaction of Alumina Glass Composites", 88th Annual Meeting, American Ceramic Society, Chicago

3. A. Pakulski and R.Haber, "Influence of Thermal Shock on Wear of Alumina Ceramics", 88th Annual Meeting, American Ceramic Society, Chicago

4. R.Haber and G.Hannon, "Evaluation of the Elastic Properties of Particulate Glass Composites Using Ultrasonic Testing", 88th Annual Meeting, American Ceramic Society, Chicago

5. R.Haber, G.Hannon and L.Johnson, "Determination of the Internal Stress in Particle Glass Composites Using XRD", 88th Annual Meeting, American Ceramic Society, Chicago

6. R.Haber, "Role of Particle Size in Slip Casting of Al₂O₃ Ceramics", INVITED, 88th Annual Meeting, American Ceramic Society, Chicago

7. J.Chambers, R.Haber and D.Alongi, "Effect of Glass Particle Size on the Solubility of Borosilicate Glasses", 88th Annual Meeting, American Ceramic Society, Chicago

1987

1. W.Cao, D.Ashkin, R.Gerhardt, R.Haber, "Effects of Processing and Sintering on the Pore Structure of Bulk Porous Silica", 89th Annual Meeting, American Ceramic Society, Pittsburgh

2. D.Ashkin, R.Haber and J.Wachtman, "Mechanical Properties of Bulk Porous Silica", 89th Annual Meeting, American Ceramic Society, Pittsburgh

3. R.Haber and G.Hannon, "Densification of Alumina Glass Matrix Composite Materials", 89th Annual Meeting, American Ceramic Society, Pittsburgh

4. K.Hatton, J.Wachtman and R.Haber, "Wear and Friction Mechanics for SiO₂ and Si₃N₄ Films", 89th Annual Meeting, American Ceramic Society, Pittsburgh

5. L.Kowzan and R.Haber, "Wear Behavior of Alumina Glass Particulate Composites", 89th Annual Meeting, American Ceramic Society, Pittsburgh

6. R.Haber and G.Hannon, "Alumina Glass Composites", 1st Conference on Ceramic Powder Science and Technology, American Ceramic Society.

7. R.Haber, "The Expanding World of Ceramic Coatings", INVITED, Porcelain Enamel Institute Executive Meeting, Sea Island, GA.

1988

1. D.Ashkin, R.Haber and J.Wachtman, "Strength and K_{1c} Measurements of Bulk Porous Silica", 90th Annual Meeting, American Ceramic Society, Cincinnati

2. G.Hannon and R.Haber, "Fracture and Toughening Mechanisms in Particulate Reinforced Composites, Theory", 90th Annual Meeting, American Ceramic Society, Cincinnati

3. R.Haber and G.Hannon, "Fracture and Toughening Mechanisms in Particulate Reinforced Composites, Volume Fraction Dependence", 90th Annual Meeting, American Ceramic Society, Cincinnati

4. L.Kowzan, R.Haber and J.Wachtman, "Fracture and Toughening Mechanisms in Particulate Reinforced Composites, Particle Size Dependence", 90th Annual Meeting, American Ceramic Society, Cincinnati

5. M.Cohn, R.Haber and J.Wachtman, "Advantages of Prereaction in Processing of Alumina Ceramics", 90th Annual Meeting, American Ceramic Society, Cincinnati

6. J.Mannaso, R.Haber and M.McLaren, "Optimization of Firing Schedules of Mn-Zn-Ferrites", 90th Annual Meeting, American Ceramic Society, Cincinnati

7. R.Haber and M.Cohn, "Prereaction of Alumina Glass Ceramics", 90th Annual Meeting, American Ceramic Society, Cincinnati

8. R.Haber and G.Hannon, "Fracture and Toughening Mechanisms in Particulate Reinforced Composites, Part IV", 90th Annual Meeting, American Ceramic Society, Cincinnati
9. R.Haber and G.Hannon, "Fracture and Toughening Mechanisms in Particulate Reinforced Composites, Part V", 90th Annual Meeting, American Ceramic Society, Cincinnati
10. L.Kowzan, R.Haber and J.Wachtman, "Fracture and Toughening Mechanisms in Particulate Reinforced Composites, Part VI", 90th Annual Meeting, American Ceramic Society, Cincinnati
11. L.Kowzan and R.Haber, "Wear Behavior of Alumina Glass Composites", 90th Annual Meeting, American Ceramic Society, Cincinnati
12. P.Smith and R. Haber, "Use of Particle Packing in Optimization of Slurry Solids Loading", 90th Annual Meeting, American Ceramic Society, Cincinnati
13. R.Haber, "Rheological Control in the Pressure Casting of Ceramic Oxide Slurries", INVITED, 90th Annual Meeting, American Ceramic Society, Cincinnati
14. R.Haber, "Plaster as a Mold Material", INVITED, American Ceramic Society Fall Whitewares Meeting, Hershey, PA
15. R.Haber, "Alumina-Glass Composites: Origins of Porosity and Methods of Removal", Chemical Engineering Education in a Changing Environment, American Chemical Society Symposium, Santa Barbara, CA.

1989

1. D.Hannon and R.Haber, "Characterization of Plaster as a Mold Material", 91st Annual Meeting, American Ceramic Society, Indianapolis
2. D.Italiano and R.Haber, "Effect of Slurry pH on the Pore Characteristics of Plaster Molds, 91st Annual Meeting, American Ceramic Society, Indianapolis
3. P.Smith and R.Haber, "Casting Properties of Alumina Suspensions with Extended Particle Size Distributions, 91st Annual Meeting, American Ceramic Society, Indianapolis
4. D.Italiano and R.Haber, "Effect of Mold Aging on the Casting of Aqueous Alumina Suspensions", 91st Annual Meeting, American Ceramic Society, Indianapolis
5. M.Smyth, D.Niesz, R.Haber and S.Danforth, "The Effect of Ultrasonic Energy on the Casting Behavior of Submicron Alumina", 91st Annual Meeting, American Ceramic Society, Indianapolis
6. S.Becher, D.Onn, R.Haber and J.Wachtman, "Thermal Properties of Glass/Alumina Composites", 91st Annual Meeting, American Ceramic Society, Indianapolis
7. M.Smyth, D.Niesz, R.Haber and S.Danforth, "Effect of Ultrasound on the Casting of Alumina", 91st Annual Meeting, American Ceramic Society, Indianapolis
8. C.Obszarny and R.Haber, "Effect of Boron Carbide Surface on Molten Alumina Infiltrations", 91st Annual Meeting, American Ceramic Society, Indianapolis
9. L.Inglehard and R. Haber "Thermal wave characterization of glass-bonded alumina", MRS Annual Meeting, 1989.
10. R.Haber, "Particulate Composites", INVITED, Johns Hopkins University Seminar
11. R.Haber, "Ceramic Casting Technology", INVITED, Ceramic Association of NJ Spring Meeting, Piscataway, NJ
12. R.Haber, "Processing of Advanced Composites", INVITED, Northwestern University, Mechanical Engineering Workshop, Evanston, IL.
13. R.Haber, "Casting of Large Ceramics", INVITED, Lawrence Livermore National Laboratory, Livermore, CA

1990

1. M.Miller and R.Haber, "Evaluation of Bentonite and Hectorite Additions to an Alumina Body", 92th Annual Meeting, American Ceramic Society, Dallas
2. A.Haerle and R.Haber, "Use of Ultrasound to Monitor Casting Rate", 92th Annual Meeting, American Ceramic Society, Dallas
3. L.Quesada, R.Haber and R.Lehman, "Reformulation of a Central American Sanitaryware Body", 92th Annual Meeting, American Ceramic Society, Dallas

4. A.Yarosh and R.Haber, "Pressure Casting of an Aqueous Alumina Slip", 92th Annual Meeting, American Ceramic Society, Dallas
5. C.Fuller, R.Haber and P.Smith, "Use of Particle Size Distribution Control in the Reformulation of an Extended Particle Size Distribution Alumina Slip", 92th Annual Meeting, American Ceramic Society, Dallas
6. W.Fischer, R.Haber and J.Wachtman, "SiC Platelet Reinforced Alumina Composite", 92th Annual Meeting, American Ceramic Society, Dallas
7. M.Hanninen, R.Haber and D.Niesz, "A Comparison of Hot Pressed and Pressureless Sintered SiC Platelet Reinforced Si₃N₄", 92th Annual Meeting, American Ceramic Society, Dallas
8. M.Cohn, R.Haber and D.Niesz, "A Study of the Densification in the Alumina/Glass Composite System", 92th Annual Meeting, American Ceramic Society, Dallas
9. M.Smyth, D.Niesz and R.Haber, "The Effect of Ultrasonics on the Green Microstructure of Pressure Cast Alumina Powders", 92th Annual Meeting, American Ceramic Society, Dallas
10. R.Haber, "Reformulation of Whitewares", INVITED, Mexican Ceramic Society Del Norte Spring Meeting
11. R.Haber, "Composite Ceramics", INVITED, SAMPE Fall Meeting
12. R.Haber, L. Quesada, R. Lehman, "Reformulation of a Central American Sanitaryware Body", INVITED, SILICER '90, Nuremberg, Germany
13. R.Haber, "Forming Processes", INVITED, Metropolitan Division of American Ceramic Society, Fall Meeting, Springfield, NJ

1991

1. M.Leonard, P.Smith and R.Haber, "The Role and Tolerances of Coarse Particle Additions in Alumina Slips and the Implication for Scrap Additions in Sanitaryware Bodies, 93th Annual Meeting, American Ceramic Society, Cincinnati
2. D.Chalasani, D.Italiano and R.Haber, "Solubility of Plaster Molds and Their Function in Casting", 93th Annual Meeting, American Ceramic Society, Cincinnati
3. A.Yarosh, I.Tsao and R.Haber, "The Structure of Slip Cast Sanitaryware Cakes", 93th Annual Meeting, American Ceramic Society, Cincinnati
4. R.Haber, R.Carrig and L.Davis, "The Use of Polyalkylene Polyamine Additives in Enhancing the Casting of Aluminas and Sanitaryware Slips, 93th Annual Meeting, American Ceramic Society, Cincinnati
5. D.Italiano and R.Haber, "The Effect of Deflocculants on Mold Aging", 93th Annual Meeting, American Ceramic Society, Cincinnati
6. J.Auborn and R.Haber, "The Mechanical Behavior and Flaw Sensitivity of Alumina Particulate Glass Matrix Composites with Respect to Particle Size and Volume Fraction, 93th Annual Meeting, American Ceramic Society, Cincinnati
7. B.Meenan, R.Haber and D.Niesz, "Processing of a High Toughness Silicon Nitride", 93th Annual Meeting, American Ceramic Society, Cincinnati
8. P.Smith and R.Haber, "A Mechanism for Simultaneous Control and Beneficiation of Suspension Flow and Cast Kinetics for an Aqueous Alumina Slip, 93th Annual Meeting, American Ceramic Society, Cincinnati
9. R.Haber, "Origin of Casting Pores in Slip Cast Cakes", INVITED, 93th Annual Meeting, American Ceramic Society, Cincinnati
10. I.Tsao and R.Haber, "The Effect of Dispersant Concentration on Cast Cake Structure and Rheology", 93th Annual Meeting, American Ceramic Society, Cincinnati
11. R.Haber and A.Haerle, "Ultrasonic Real Time Monitoring of Cake Thickness and Cake Permeability During Slip Casting", INVITED, 93th Annual Meeting, American Ceramic Society, Cincinnati
12. R.Haber, "Quality Control in Traditional Ceramics", INVITED, American Ceramic Society Fall Meeting, Asheville, NC

1992

1. A. Yarosh and R.Haber, "Multiple Casting of Porcelain Slips", 94th Annual Meeting, American Ceramic Society, Cincinnati
2. W. Nothofer and R.Haber, "Adhesion of Slip Cast Cakes", 94th Annual Meeting, American Ceramic Society, Cincinnati
3. A. Haerle and R.Haber, "Ultrasonic Real Time Monitoring of Cake Structure During Slip Casting", 94th Annual Meeting, American Ceramic Society, Cincinnati

1993

1. D. Italiano and R.Haber, "Improvements in Gypsum Mold Performance Using Alpha Gypsum Additions", 95th Annual Meeting, American Ceramic Society, Cincinnati
2. A. Yarosh and R.Haber, "Rheology and Properties of a Two Component Clay Slip", 95th Annual Meeting, American Ceramic Society, Cincinnati
3. J. Keller and R.Haber, "Direct Measurement of the Floc Size in Alumina Slips", 95th Annual Meeting, American Ceramic Society, Cincinnati
4. J. Martin and R.Haber, "Effect of PVOH Additions on the Casting and Green Properties of a 72 Weight Percent Al₆ Alumina Slip System", 95th Annual Meeting, American Ceramic Society, Cincinnati
5. D. Shemo and R.Haber, "The Characterization of the Cake Structure of Slip Cast Alumina", 95th Annual Meeting, American Ceramic Society, Cincinnati
6. L. Behal and R.Haber, "Effects of Predispersing Pigments Before Additions into a Glaze", 95th Annual Meeting, American Ceramic Society, Cincinnati
7. R.Haber, "Pressure Casting of Ceramics", INVITED Mexican Ceramic Society del Norte Annual Meeting, Puerto Vallarta

1994

1. D. Italiano and R.Haber, "Interaction of Deflocculants with Plaster Molds", 96th Annual Meeting, American Ceramic Society, Indianapolis
2. N. Kadir and R.Haber, "Cake Rheology of Aluminas", 96th Annual Meeting, American Ceramic Society, Indianapolis
3. W. Fischer and R.Haber, "Monitoring of Cake Properties for Pressure Cast Alumina", 96th Annual Meeting, American Ceramic Society, Indianapolis
4. L. Behal, D. Schelker, D. Collins and R.Haber, "Importance of Gel Curves in Sanitaryware Slips", 96th Annual Meeting, American Ceramic Society, Indianapolis
5. D. Shemo, B. Bland R. Haber, "Effect of Colloidal Modifiers on Time-Dependent Rheology and Casting Behavior of Clay Slurries and Casting Slips", 96th Annual Meeting, American Ceramic Society, Indianapolis
6. J. Martin and R.Haber, "Colloidal Modifiers – Their Relationship in Slip Properties", 96th Annual Meeting, American Ceramic Society, Indianapolis
7. B. Bland, D. Shemo and R.Haber, "Effect of SO₄ Additions on the Cake Structure of a Sanitaryware Body", 96th Annual Meeting, American Ceramic Society, Indianapolis
8. A. Yarosh and R.Haber, "Flocculation of a Kaolin Slurry", 96th Annual Meeting, American Ceramic Society, Indianapolis
9. A. Urban and R.Haber, "Characterization of Slip Cast Properties of Alumina", 96th Annual Meeting, American Ceramic Society, Indianapolis
10. J. Keller and R.Haber, "Rheometry of Ceramic Suspensions", 96th Annual Meeting, American Ceramic Society, Indianapolis
11. R.Haber, J. Keller and R. Ulbrich, "Rheometry of Ceramic Suspensions – II", 96th Annual Meeting, American Ceramic Society, Indianapolis
12. R.Haber, "Pressure Casting Mechanics", INVITED, Manufacturers and Suppliers Workshop, American Ceramic Society, Charlotte

1995

1. W. Fischer and R.Haber, "Variables Affecting the Cast Structure for a Pressure Cast Sanitaryware Body", 97th Annual Meeting, American Ceramic Society, Cincinnati

2. J.Martin, R.Haber, M.Lencka and R.Riman, "Solubility of Colloidal Modifiers and Its Effect on Reactions that Occur in Conventional Slurry Preparation", 97th Annual Meeting, American Ceramic Society, Cincinnati
3. J.Keller and R.Haber, "Clay Slurry Rheology Using Conventional and Dynamic Stress Rheometry, 97th Annual Meeting, American Ceramic Society, Cincinnati
4. D.Italiano and R.Haber, "Polymeric Pressure Casting Molds", 97th Annual Meeting, American Ceramic Society, Cincinnati
5. J.Keller and R.Haber, "Slip Casting of Fine Particle Size Materials", 97th Annual Meeting, American Ceramic Society, Cincinnati
6. L.Punsukumtana and R.Haber, "Aging and Its Affect on the Cast Formation for Silicon Nitride, 97th Annual Meeting, American Ceramic Society, Cincinnati
7. E.Anderson, B.Kruft and R.Haber, "Slip Casting of Reactive Aluminas", 97th Annual Meeting, American Ceramic Society, Cincinnati
8. R.Haber, "Soluble Modifiers in Casting Slips", INVITED Mexican Ceramic Society del Norte Annual Meeting, Cancun
9. R.Haber, "Research in a Cooperative Research Program", INVITED, Symposium on the Future of Research in Malaysia, SIRIM, Kuala Lumpur, Malaysia

1996

1. R.Haber, "Particulate Composites for Use in Enamels", INVITED, Porcelain Enamel Institute Annual Meeting, Sea Island, Ga
2. R.Haber, "Ceramic Mold Materials for Pressure Casting", INVITED, Manufacturers and Suppliers Workshop, American Ceramic Society, Louisville

1997

1. N. Gonzalez, C. Paredes, R.Haber, "Mixed Deflocculants in the Dispersants of Clay Bodies", 99th Annual Meeting, American Ceramic Society, Cincinnati
2. R.Haber, "Soluble Ion Analyses for Ceramic Slurries", INVITED, 99th Annual Meeting, American Ceramic Society, Cincinnati
3. C. Paredes, R.Haber and H. Gocmez, "The Effect of Ionic Concentration on the Viscosity of Clay Based Systems", 99th Annual Meeting, American Ceramic Society, Cincinnati
4. R.Haber, "Contributions to Ceramics of Mal McLaren", INVITED Mexican Ceramic Society del Norte Annual Meeting, Cancun

1998

1. R.Haber, "How Can the Ceramic Industry Address the Reclassification of Crystalline Quartz", INVITED, 100th Annual Meeting, American Ceramic Society, Indianapolis
2. C. Paredes and R.Haber, "The Effect of Soluble Ions on the Rheology of Clays", 100th Annual Meeting, American Ceramic Society, Indianapolis
3. R.Haber, "Soluble Ions in Clays", Science of Whitewares Conference, Alfred University

1999

1. R.Haber, "Rheological Testing of Ceramic Slips", INVITED Mexican Ceramic Society del Norte Annual Meeting, Cancun
2. R.Haber, "Rheological Testing of Ball Clays", INVITED Venezuelan Ceramic Society Annual Meeting, Maracay
3. H.Gocmez and R.Haber, "Method for the Determination of Soluble Salts in Casting Slips", 100th Annual Meeting, American Ceramic Society, Indianapolis

2000

1. R.Haber and H. Gocmez, "A Comparison of Naturally Occurring Crystalline Quartz and Freshly Ground Quartz in Clay, INVITED, 102nd Annual Meeting, American Ceramic Society, St. Louis
2. C. Paredes and R.Haber, "The Effect of Soluble Ions on the Rheology of Clays" Annual Meeting, American Ceramic Society, St. Louis, Annual Meeting, American Ceramic Society, St. Louis
3. T. Tonthai and R.Haber, "The Effect of Aging on the Rheology of Ball Clay Suspensions", Annual Meeting, American Ceramic Society, St. Louis

4. S. Cheng and R.Haber, "The Effect of Bone Ash Washing on the Viscoelastic Properties of Bone China Bodies", Annual Meeting, American Ceramic Society, St. Louis
5. F. Mazzeo and R.Haber, "Rheological Evaluation of Fine Particulate Ceramic Pastes, Annual Meeting, American Ceramic Society, St. Louis
6. R.Haber, "The Impact of the IARC Reclassification of Crystalline Silica on the Ceramic Industry", INVITED, Annual Meeting, American Ceramic Society, St. Louis
7. R.Haber, "A Study on the Nature of Crystalline Silica in Ball Clay", INVITED, Centro Ceramic Symposium on Crystalline Silica, Bologna, Italy
8. R.Haber, "Rheology as a Process Control", INVITED, Malcolm G.McLaren Lecture Series, Ceramic Association of New Jersey, Piscataway

2001

1. R.Haber, "Crystalline Quartz in Ball Clays", INVITED Mexican Ceramic Society del Norte Annual Meeting, Los Cabos
2. R.Haber, "Crystalline Quartz vs Naturally Occurring Quartz as Harzardous Dusts", INVITED, American Bar Association, Philadelphia Chapter, 2001
3. R.Haber, "Crystalline Quartz in Clays", INVITED, Legislative and Public Affairs Forum, American Ceramic Society, Washington, DC.

2002

1. R.A.Haber and S. Nycz, "Polarizing Light Microscopy Evaluation of Tape Cast Alumina", 104th Annual Meeting, American Ceramic Society, 2002.
2. R.A.Haber, "Inorganic Waste Streams – Raw Material Mines of the Future" INVITED 104th Annual Meeting, American Ceramic Society, 2002.
3. K. Hill and R. Haber, "Use of Hudson River Dredge Materials in the Processing of Ceramics" 104th Annual Meeting, American Ceramic Society, 2002.
4. C.August and R.Haber, "Effect of Process Shear on the Binder Distribution in a Green Body" 104th Annual Meeting, American Ceramic Society, 2002.
5. C. Rankin and R.Haber, "Rheology of Fine Ceramic Pastes" 104th Annual Meeting, American Ceramic Society, 2002.
6. R.Haber and C.Paredes, "Evaluation of a Variety of Commercial Swelling Clays on the Rheological and Physical Properties of Clay Bodies and Glazes" INVITED, 104th Annual Meeting, American Ceramic Society, 2002.
7. R.Haber, "Crystalline Quartz as a Hazardous Material", INVITED, International Workshop on Crystalline Silica, Gaithersburg, MD, June 2002
8. R.Haber, "XRD and IR Techniques to Evaluate Crystalline Quartz", INVITED, International Workshop on Crystalline Silica, Gaithersburg, MD, June 2002

2003

1. C.R. August and R.A. Haber, "Benbow Analysis of Alumina Pastes," 105th Annual Meeting, American Ceramic Society, Indianapolis
2. R.A.Haber and H. Gocmez, "Characterization of quartz crystallinity in naturally occurring clay minerals using diffuse reflectance infrared spectroscopy", 105th Annual Meeting, American Ceramic Society, Indianapolis
3. C.August, S. Nycz and R.Haber, "Distribution of polyvinyl alcohol as seen by petrographic analysis", 105th Annual Meeting, American Ceramic Society, Indianapolis
4. R.Haber, "Rheology of Ceramic Pastes", INVITED Ceramic Manufacturers Association, Asheville

2004

1. R. McCuiston, E. Azriel, R. Sadangi, S. Danforth, R.Haber, D. Niesz and J. Molinari, "Fabrication and Simulation of Random and Periodic Macrostructures", Advances in Ceramic Armor, , Engineered Ceramic Division Meeting, American Ceramic Society, Cocoa Beach
2. N. Venugopal, R.A. Haber, S.M. Augustine and R.D. Skala, "High shear casting of nanoparticulate TiO₂", Engineered Ceramic Division Meeting, American Ceramic Society, Cocoa Beach

3. R. Brennan, R. Haber, D. Niesz and J. McCauley, "Non-Destructive Evaluation of Ceramic Armor: Testing, Advances in Ceramic Armor, , Engineered Ceramic Division Meeting, American Ceramic Society, Cocoa Beach
4. C. Ziccardi, V. Demirbas, R. Haber, D. Niesz and J. McCauley, "Means of Using Advance Processing to Eliminate Anomalous Defects on SiC Armor", Advances in Ceramic Armor, , Engineered Ceramic Division Meeting, American Ceramic Society, Cocoa Beach FL
5. R. Brennan, R. Haber, D. Niesz, J. McCauley and M. Bhardwaj, "Non-Destructive Evaluation of Ceramic Armor: Fundamentals", Advances in Ceramic Armor, , Engineered Ceramic Division Meeting, American Ceramic Society, Cocoa Beach FL
6. H. Gocmez and R. Haber, "Practical Determination of alpha-quartz crystallinity by x-ray diffraction", European Ceramic Society Meeting, Bologna
7. H. Gocmez and R. Haber, "The Variation of Quartz Crystallinity in Clay and Clay Minerals in Terms of Grinding and Aging", 12th Annual Clay Conference, Istanbul, Turkey
8. C.R. August, R.A. Haber, L.E. Reynolds, "Comparison of Sodium Caprylate and Sodium Stearate and the Effects of their Hydrocarbon Chain Lengths on the Adsorption Behavior on Alumina Paste Rheology", Engineered Ceramic Division Meeting, American Ceramic Society, Cocoa Beach FL

2005

1. C.R. August, R.A. Haber, and L.E. Reynolds, "Use of Aqueous Based Fatty Acids in the Extrusion of Thin Walled Structures," Pac Rim Conference, American Ceramic Society, Maui, HI
2. C. Ziccardi, M. V. Demirbas, R. A. Haber, D. E. Niesz, J. McCauley, "Determining Effect of Anomalous Defects on SiC Armor", Advances in Ceramic Armor, Engineered Ceramic Division Meeting, American Ceramic Society, Cocoa Beach, FL
3. M. V. Demirbas, R. A. Haber, "Relationship of Microstructure and Hardness for Al₂O₃ Armor Material", Advances in Ceramic Armor, Engineered Ceramic Division Meeting, American Ceramic Society, Cocoa Beach FL
4. M. V. Demirbas and R. A. Haber, "Defining Microstructural Tolerance Limits of Defects for SiC Armor", Advances in Ceramic Armor, Engineered Ceramic Division Meeting, American Ceramic Society, Cocoa Beach FL
5. R. Brennan and R.Haber, "NDE of Ceramic Armor", INVITED, Non Destructive Evaluation of Armor Workshop, US Army, St. Louis, MO
6. R.Haber, "Overview of Research in an IUCRC", INVITED, Ceramic Association of New Jersey Summer Meeting, Ringoes, NJ
7. R.Haber and N.Venugopal, "Effect of synthesis variables on the bulk assembly of TiO₂" Presented at the 6th annual Pacific Rim Conference, American Ceramic Society, Maui, HI
8. N. Venugopal, R.A. Haber, S.M. Augustine and R.D. Skala, "High shear casting of nanoparticulate TiO₂" Presented at the 107th Annual Meeting of the American Ceramic Society, Baltimore, MD
9. D. Maiorano, N. Venugopal, R.A. Haber, "Effect of Soluble Sulfate removal on the Rheological behavior of nanoparticulate TiO₂" Presented at the 107th Annual Meeting of the American Ceramic Society, Baltimore, MD

2006

1. R.Haber, "Ultrasonic Evaluation of Ceramic Armor", INVITED, Damage in Armor, US Army Research Office, Arlington, VA
2. R.Haber, "Enhanced Recruiting in IUCRC's", INVITED, NSF IUCRC Annual Meeting, Arlington, VA
3. R.Haber, "NDE in Ceramic Armor", INVITED, Army Research Laboratory, Aberdeen, MD
4. R.Haber, "Enhanced SiC Microstructures for Armor Applications", INVITED, Armament Research and Development Center, Picattiny Arsenal, Dover, NJ
5. M.V. Demirbas and R. Haber, "Microstructure Property Relationship for Ceramic Armor", Advances in Ceramic Armor, Engineered Ceramic Division Meeting, American Ceramic Society, Cocoa Beach FL

6. D. W. Maiorano, R. A. Haber, M. Chhowalla and J. McCauley, "The Effect of Texture on the Hardness and Elastic Modulus of Boron Carbide", Advances in Ceramic Armor, Engineered Ceramic Division Meeting, American Ceramic Society, Cocoa Beach FL
7. G. Fanchini, D. Niesz, R.Haber, J.McCauley and M.Chhowalla, "Root causes of the poor ballistic performance of boron carbide", Advances in Ceramic Armor, Engineered Ceramic Division Meeting, American Ceramic Society, Cocoa Beach FL
8. N.Venugopal and R. Haber, "Structure of aggregated nanoscale TiO₂ at varying viscoelastic stages", Engineered Ceramic Division Meeting, American Ceramic Society, Cocoa Beach FL
9. S.Nycz and R. Haber, "Microstructural Anisotropy During Varying Forming Conditions", Advances in Ceramic Armor, Engineered Ceramic Division Meeting, American Ceramic Society, Cocoa Beach
10. R. Brennan, R. Haber and D. Niesz, "Defect Engineering of Samples for Non-Destructive Evaluation (NDE) Ultrasound Testing", Advances in Ceramic Armor, Engineered Ceramic Division Meeting, American Ceramic Society, Cocoa Beach FL
11. M.Bakas, V.Greenhut, D.Niesz, R.Haber, J.McCauley, "Statistical Analysis of Inclusions in Ballistic SiC", Advances in Ceramic Armor, Engineered Ceramic Division Meeting, American Ceramic Society, Cocoa Beach FL
12. G. Fanchini, D. Niesz, R.Haber, J.McCauley and M. Chhowalla, "The role of multiple polytypes in determining the catastrophic failure of boron carbide", MRS Fall 2006 Symposium, Boston, MA
13. R.Haber, "Nanotechnology and Nanomaterials in the Future", INVITED, I.A.Andrew's Lecture, Porcelain Enamel Institute Annual Meeting, Nashville, TN
14. R.Haber, "Particulate Hazards in an Industrial Environment", INVITED, 1st International Ceramic Congress, Toronto, Canada
15. N. Venugopal, R.A. Haber, R.D. Skala, "Structure of aggregated nanoscale TiO₂ at varying viscoelastic stages" Presented at the 30th annual International Conference on Advanced Ceramics and Composites, Cocoa Beach FL
16. R.Haber, "Overview of Materials Technology at Rutgers", INVITED, ASM Fall Meeting, Tristate Chapter, Springfield, NJ.
17. V. Demirbas, R.Haber and R. Brennan, "Effective Characterization and Quantitative Evaluation of Ceramic Armor Materials" Materials Science & Technology 2006 Conference and Exhibition, Cincinnati, OH
18. N.Venugopal and R.Haber, "Yield Strength of Nanoparticulate Titania via Compaction" Materials Science & Technology 2006 Conference and Exhibition, Cincinnati, OH
19. C.August and R.Haber, "Evaluation of Mixedness of Inorganic Particles in a Multicomponent Extruded System" Materials Science & Technology 2006 Conference and Exhibition, Cincinnati, OH
20. R.Haber, "Research Activities within the Center for Ceramic Research", INVITED, Electro Abrasives Corporation, Buffalo, NY

2007

1. R.Haber, "NDE of Ceramic Armor", INVITED, Kennametal Corporation, Latrobe PA
2. R.Haber, "Armor Research within the Center for Ceramic Research", INVITED, Saint-Gobain Corp, Niagara Falls, NY
3. V.Demirbas and R.Haber, "Spatial distribution of defects in SiC and its correlation with localized property measurements", Presented at the 31th annual International Conference on Advanced Ceramics and Composites, Daytona, FL
4. S.Mercurio and R.Haber, "Silicon Carbide Microstructure Improvements for Armor Applications", Presented at the 31th annual International Conference on Advanced Ceramics and Composites, Daytona, FL
5. P. Chhillar, M. K. Aghajanian, D. D. Marchant, R. A. Haber, and M. Sennett, "The Effect of Si Content on the Properties of B₄C-SiC-Si Composites", Presented at the 31th annual International Conference on Advanced Ceramics and Composites, Daytona, FL

6. C.August and R.Haber, "Effect of inorganic particle size and shear on the mixedness of a multicomponent system", Presented at the 31th annual International Conference on Advanced Ceramics and Composites, Daytona, FL
7. R.Brennan, R.Haber and D.Niesz, "NDE of Ceramic Armor", Presented at the 31th annual International Conference on Advanced Ceramics and Composites, Daytona, FL
8. V.Greenhut, M.Bakas, D.Niesz, J.McCauley and R.Haber, "Inclusion and Defect Distribution in Ceramic Armor", INVITED, Presented at the 31th annual International Conference on Advanced Ceramics and Composites, Daytona, FL
9. R.Haber, "Ceramic Armor within the Materials Center of Excellence, INVITED, Army Research Laboratory, Aberdeen, MD
10. R.Haber, "Summary of Ceramic Armor Research within the Center for Ceramic Research", INVITED, Industrie Bitossi Corp, Empoli, Italy
11. R.Haber, "Phase Transformations and NDE of Dense SiC for Mirrors", INVITED, Airforce Research Laboratory, Wright Patterson Airforce Base, Dayton, OH
12. R.Haber, "Sensors for Ceramic Armor, INVITED, Morgan Electroceramics", Bedford, OH
13. R.Haber, "Comparison between US and European Sanitaryware Bodies", INVITED, Imerys Corp, Cornwall, UK
14. R.Haber, "NDE of Dense Ceramics", INVITED, Umicore Corp, Olen, Belgium
15. R.Haber, "Bulk Assembly of Nanoparticulates", INVITED, Umicore Corp, Olen, Belgium
16. R.Haber, "Overview of the Center for Ceramic Research", INVITED, Umicore Corp, Olen, Belgium
17. R.Haber, "NDE and Phase Transformations in SiC Mirror Materials", INVITED, SPIE Annual Meeting, San Diego, CA
18. R.Haber, "Transformations in Ceramic Mirror Materials", INVITED, US Airforce, Mirror Workshop, Piscataway, NJ

2008:

1. N.Venugopal(gr), R.Haber, "Evaluation of Aggregate Breakdown in Nanosized Titanium Dioxide via Mercury Porosimetry", Presented at the 32nd annual International Conference on Advanced Ceramics and Composites, Daytona, FL
2. V.Demirbas(gr), R.Haber, "Microstructural Examination and Quasi-Static Property Determination of Sintered Armor Grade SiC", Presented at the 32nd annual International Conference on Advanced Ceramics and Composites, Daytona, FL
3. S.Mercurio(gr), R.Haber, "Modifying the Microstructure of Silicon Carbide through Grain Boundary Engineering", Presented at the 32nd annual International Conference on Advanced Ceramics and Composites, Daytona, FL
4. R.Brennan(gr), R.Haber and D.Niesz, "High Frequency Ultrasound Nondestructive Evaluation of Silicon Carbide," Presented at the 32nd annual International Conference on Advanced Ceramics and Composites, Daytona, FL
5. A.Portune(gr), R.Haber, "Role of Microstructure in Ultrasound Response for Armor Ceramics", submitted to Advances in Ceramic Armor, Presented at the 32nd annual International Conference on Advanced Ceramics and Composites, Daytona, FL
6. Q.Feng(pd), R.Haber, "Microstructural Evaluation of Lithium Based Glass Ceramics as Potential Transparent Ceramic Armor", Presented at the 32nd annual International Conference on Advanced Ceramics and Composites, Daytona, FL
7. R.Haber, "Pressure Casting of Ceramics", INVITED, Sacmi Forming Conference, Imola, Italy
8. R.Haber, "Armor Ceramics", INVITED, Dynamic Defense Materials, Boothwyn PA
9. R.Haber, "An Armor Roadmap", INVITED, Ceramic Armor Subgroup, Daytona, FL
10. R.Haber, "Recruiting in an NSF IUCRC, INVITED, NSF Directors Meeting, Alexandria, VA
11. R.Haber, "Ballistic Testing and Backing Materials", INVITED, ARL Seminar, Aberdeen, MD
12. R.Haber, "Aggregate Strength in Nanoparticulate Systems", INVITED, WL.Gore, Exton, MD

2009:

1. R. Haber, "Overview of the ARL Material Center of Excellence", Armor Subcommittee Workshop, American Ceramic Society Engineered Ceramics Meeting, Daytona FL, January 2009
2. Portune and R.Haber, "Developing Non Destructive Characterization", Armor Subcommittee Workshop, American Ceramic Society Engineered Ceramics Meeting, Daytona FL, January 2009
3. R.Haber, V.Domnich, M.Davis and A.Marker, "Transparent Glass Ceramics as Ceramic Armor Materials", American Ceramic Society Engineered Ceramics Meeting, Daytona FL, January 2009
4. S. Miller, S. Mercurio, S. Bottiglieri, R.Haber, R.Rovai and A. Arcaro, "Grain Boundary Phases in Alumina for High Strain Rate Applications", American Ceramic Society Engineered Ceramics Meeting, Daytona FL, January 2009
5. A.Portune and R.Haber, "Microstructural Study of Sintered SiC via High Frequency Ultrasound Spectroscopy", American Ceramic Society Engineered Ceramics Meeting, Daytona FL, January 2009
6. D. Slusark and R.Haber, "Nondestructive Evaluation of Sintered SiC and its Correlation to Microstructure and Mechanical Properties", American Ceramic Society Engineered Ceramics Meeting, Daytona FL, January 2009
7. S. Bottiglieri and R.Haber, "High Frequency Ultrasonic NDE of Alumina for High Strain Rate Applications", American Ceramic Society Engineered Ceramics Meeting, Daytona FL, January 2009
8. D. Maiorano, V. Domnich and R.Haber, "Investigation of the Effect of Comminution on Boron Carbide Microstructure and Phase", American Ceramic Society Engineered Ceramics Meeting, Daytona FL, January 2009
9. R.Haber, American Ceramic Society Engineered Ceramics Meeting, Daytona FL, January 2009
10. R.Haber, "Nanostructured Materials and Grain Boundaries in Ceramics for Enhanced Energy Dissipation", NanoTechnology for Defense Conference, San Francisco CA, April 2009 (INVITED)
11. R.Haber, "Sustainable Raw Materials in the Advanced Ceramic Industries", St.Gobain Innovation Days Seminar, Paris France, May 2009 (INVITED)
12. R.Haber, "SiC Powder Production-Quality Control", Mirror Technology, Mirror Days SPIE, Albuquerque NM, June 2009 (INVITED)
13. R.Haber and A. Portune, "Acoustic Spectroscopy of Silicon Carbide Mirror Materials", Mirror Technology, Mirror Days SPIE, Albuquerque NM, June 2009 (INVITED)
14. A. R. Portune, S. Bottiglieri, and R. Haber, 'Non-Destructive Evaluation of Armor Grade Ceramics,' Ceramics and Composite Materials Center Meeting, Piscataway NJ, June 2009.
15. A. R. Portune, S. Bottiglieri, D. Niesz, and R. A. Haber, 'Non-Destructive Evaluation of Armor Grade Ceramics,' Army Research Laboratory Annual Program Plan Review, Aberdeen MD, June 2009.
16. S. Bottiglieri and R. A. Haber, 'Ultrasonic Characterization of Custom Engineered Armor-Grade Alumina,' QNDE Conference, Providence RI, July 2009.(INVITED)
17. A. R. Portune and R. A. Haber, 'Quantitative Ultrasound Characterization of Silicon Carbide Mirrors,' QNDE Conference, Providence RI, July 2009.(INVITED)
18. A. R. Portune, S. Bottiglieri, and R. Haber, 'Non-Destructive Evaluation of Armor Grade Ceramics,' Army Research Laboratory, October 2009.
19. A. R. Portune, S. Bottiglieri, D. Niesz, and R. A. Haber, 'Non-Destructive characterization of Armor Grade Ceramics,' Army Research Laboratory, Aberdeen MD, November 2009.

2010:

1. S.R. Mercurio, R Wadams, M. Jitianu, S. Miller, and R.A. Haber. Exploring the Role of Core/Rim Microstructures in of Silicon Carbide. Poster presentation at the 34th International Conf. on Adv. Cer. and Composites, Daytona Beach, FL, 2010.

2. S. Bottiglieri and R.A. Haber, 'Corrective Techniques for the Ultrasonic Nondestructive Evaluation of Ceramic Materials,' 34th ICACC, Daytona Beach, FL, 2010.
3. R. Wadams, S.R. Mercurio, and R.A. Haber. The Influence of Sintering Techniques on the Microstructure and Mechanical Properties of Rare-Earth Doped SiC. Poster presentation at the 34th International Conf. on Adv. Cer. and Composites, Daytona Beach, FL, 2010.
4. H. Schulman, S. Allen, N. Vandervoort, S. Mercurio, R. Haber, D. Laughton, and J. Funk. Evaluation of SiC Heating in a Microwave Field. Talk presented at the 34th International Conf. on Adv. Cer. and Composites, Daytona Beach, FL, 2010.
5. A. Portune and R. A. Haber, 'Advanced Nondestructive Ultrasound Characterization of Transparent Armor Ceramics,' American Ceramics Society Engineered Ceramics Meeting, Daytona Beach FL, January 2010.
6. A. R. Portune, S. Bottiglieri, D. Niesz, and R. A. Haber, 'Non-Destructive characterization of Armor Grade Ceramics,' Army Research Laboratory, Aberdeen MD, June 2010.
7. S. Bottiglieri, A.R. Portune, and R. A. Haber, 'Ultrasound Nondestructive Characterization of Transparent Spinel,' QNDE Conference, San Diego CA, July 2010.
8. V. Domnich, R.A. Haber, Influence of impurities on stacking fault dynamics in sic under external loading, 34th International Conference on Advanced Ceramics and Composites, January 2010, Daytona Beach, FL

2011:

1. C. Morrow, V. Domnich, R.A. Haber, Multi-scale computational investigations of SiC/B4C interfaces, 35th International Conference on Advanced Ceramics and Composites, January 2011, Daytona Beach, FL
2. V. Domnich, D. Maiorano, R.A. Haber, Structural variations in boron carbide as a function of carbon content: Raman spectroscopy and x-ray diffraction studies, 35th International Conference on Advanced Ceramics and Composites, January 2011, Daytona Beach, FL
3. V. Domnich, R.A. Haber, Influence of variations in the starting powders chemistry and crystallinity on physical and mechanical properties of SPS SiC, 35th International Conference on Advanced Ceramics and Composites, January 2011, Daytona Beach, FL
4. Toksoy, M. F. and R. A. Haber, Densification and Microstructural Properties of Boron-Carbide in Spark Plasma Sintering, 35th International Conference on Advanced Ceramics and Composites, January 2011, Daytona Beach, FL
5. Ku, N., Reynaud, S., Haber, R. and Rohn, C. (2011) Cohesive Strength of Dry Powders Using Rheology, in Mechanical Properties and Performance of Engineering Ceramics and Composites VI, 35th International Conference on Advanced Ceramics and Composites, January 2011, Daytona Beach, FL
6. M. Vu and R. Haber, "*The Effects of Temperature and Pressure Profiles on the Densification and Microstructural Properties of Transparent Magnesium Aluminate Spinel Fabricated by SPS Processing*", Poster Session A; The 35th International Conference and Exposition on Advanced Ceramics and Composites (ICACC'11), Daytona Beach, FL, 2011.

2012

1. DeLucca, V., and R. A. Haber. "Effect of Boron Carbide Additive Size and Morphology on Spark Plasma Sintered Silicon Carbide." 36th International Conference on Advanced Ceramics and Composites, January 2012, Daytona Beach, FL
2. DeLucca, V., and R. A. Haber. "Ultrasonic Nondestructive Characterization of Oil-Based Clay." 36th International Conference on Advanced Ceramics and Composites, January 2011, Daytona Beach, FL
3. Miller, S., F. Toksoy, et al. Submicron Boron Carbide Synthesis through Rapid Carbothermal Reduction, 36th International Conference on Advanced Ceramics and Composites, January 2012, Daytona Beach, FL

4. R.Haber, "Importance of IUCRC's in Advanced Research", (NVITED LECTURE TO CONGRESSION PANEL ON SCIENCE) May 2012, US Congressional Caucus on Research
5. R.Haber, "Advanced Ceramic for Armor Applications", Clemson University Seminar Series
6. V. Domnich, J.C. LaSalvia, E.R. Shanholtz, R.A. Haber, "Thermal stability of amorphous boron carbide phase formed under indentation", The American Ceramic Society 37th International Conference on Advanced Ceramics and Composites, January 2013, Daytona Beach, FL
7. V. Domnich, J.C. LaSalvia, E.R. Shanholtz, R.A. Haber, "Structural instability of boron carbide under high-velocity impact", The American Ceramic Society 37th International Conference on Advanced Ceramics and Composites, January 2013, Daytona Beach, FL
8. M. Vu, R. Haber, and H. Gocmez, "*Preparation and Sintering of Al₂O₃- Coated Spinel*", Symposium 4: Armor Ceramics ; The 36th International Conference and Exposition on Advanced Ceramics and Composites (ICACC'12), Daytona Beach, FL, 2012.

2013

1. Fatih Toksoy, William Rafaniello, and Richard Haber, Steve Miller, Densification of Synthesized Boron Carbide Powders Using SPS, 37th International Conference on Advanced Ceramics and Composites, January 2013, Daytona Beach, FL.
2. R.Haber, "Advancing Boron Carbide Research through the Army MEDE", (INVITED TALK), 37th International Conference on Advanced Ceramics and Composites, January 2013, Daytona Beach, FL.
3. R.Haber, "Advanced Processing of Hard Ceramics for Armor Applications", (INVITED) Johns Hopkins HEMI Graduate Seminar Series
4. V. Domnich, R. Haber, J. C. LaSalvia, E. R. Shanholtz, R. Pavlacka, *Raman Analysis of Armor Ceramics*, The Ceramic, Composite, and Optical Materials Armor Subgroup Meeting, January 2013, Daytona Beach, FL
5. V. Domnich, J. C. LaSalvia, E. R. Shanholtz, R. A. Haber, *Thermal stability of amorphous boron carbide phase formed under indentation*, The American Ceramic Society 37th International Conference on Advanced Ceramics and Composites, January 2013, Daytona Beach, FL
6. V. Domnich, J. C. LaSalvia, E. R. Shanholtz, R. A. Haber, *Structural instability of boron carbide under high-velocity impact*, The American Ceramic Society 37th International Conference on Advanced Ceramics and Composites, January 2013, Daytona Beach, FL
7. P. Karandikar, S. Wong, M. Duke, R. Haber, and M. Vu, "*Comparison of armor ceramics made by spark plasma sintering (SPS) and pressureless sintering*", Symposium 4: Armor Ceramics, The 37th International Conference and Exposition on Advanced Ceramics and Composites (ICACC'13), Daytona Beach, FL, 2013.
8. Kuwelkar, K., Domnich, V., & Haber, R. A. "*Characterization of Commercial Boron Carbide Samples*," Presentation, 2013 MACH Conference, Annapolis, Maryland, 2013.
9. Munhollon, T., Toksoy, M.F., Goa, Y. and Haber, R.A. (INVITED) Rapid Carbothermal Reduction Synthesis of Boron Carbide, MACH 2013, April 2013, Annapolis, MD
10. V.DeLucca, R.A.Haber. "Ultrasonic Nondestructive Characterization of Transparent Spinel Microstructure." 37th International Conference on Advanced Ceramics and Composites, January 2013, Daytona Beach, FL.

2014

1. K. Kuwelkar, V. Domnich, R. Haber, *Assessing the carbon concentration in boron carbide: a combined x-ray diffraction and chemical analysis*, 2014 MACH Conference, April 2014, Annapolis, MD
2. V. Domnich, R. Haber, W. Rafaniello, K. Kuwelkar, J. C. LaSalvia, B. Leavy, B. Schuster, S. Walck, J. Ligda, J. McCauley, *Boron Carbide Characterization*, The Ceramic, Composite, and Optical Materials Armor Subgroup Meeting, January 2014, Daytona Beach, FL

3. V. Domnich, J. C. LaSalvia, R. A. Haber, E. R. Shanholtz, *Stability of Indentation-Induced Amorphous Boron Carbide: Effect of Annealing Treatments*, The American Ceramic Society 38th International Conference on Advanced Ceramics and Composites, January 2014, Daytona Beach, FL
4. K. A. Kuwelkar, V. Domnich, R. A. Haber, *Assessing the Carbon Concentration in Boron Carbide: A Combined X-Ray Diffraction and Chemical Analysis*, The American Ceramic Society 38th International Conference on Advanced Ceramics and Composites, January 2014, Daytona Beach, FL
5. M. Vu and R. Haber, "*Optimization of the spark plasma sintering condition for transparent spinel*", Symposium 4: Armor Ceramics ; The 38th International Conference and Exposition on Advanced Ceramics and Composites (ICACC'14), Daytona Beach, FL, 2014.
6. Munhollon, T., Toksoy, M.F., Rafaniello, W., Haber, R.A. (INVITED) "Synthesis and Processing of Boron Carbide by Rapid Carbothermal Reduction". The 18th International Symposium Boron, Borides and Related Materials (ISBB 2014), September 2014, Honolulu, HI
7. Munhollon, T., Toksoy, M.F., Rafaniello, W., Haber, R.A. (INVITED) Synthesis and Processing of Boron Carbide by Rapid Carbothermal Reduction. The Composites and Advanced Materials Expo (CAMX 2014), October 2014, Orlando, FL
8. V.DeLucca, R.A.Haber. "Characterization of Silicon Carbide Microstructure Using Nondestructive Ultrasound Techniques." 38th International Conference on Advanced Ceramics and Composites, January 2014, Daytona Beach, FL.
9. R.Haber, "Armor Materials Research, (INVITED TALK), Clemson University Graduate Seminar, 2014

2015

1. R.Haber, "Challenges in SiC Based Composites", (INVITED TALK), DSTL Dynamic Materials Conference, Wiltshire UK, October 2015
2. R.Haber, "Boron Based Ceramics", (INVITED) Graduate Seminar Drexel, November 2015
3. R. Haber and M. Vu, "*Discoloration and light absorption in polycrystalline spinel produced by spark plasma sintering*", Symposium 4: Armor Ceramics ; The 39th International Conference and Exposition on Advanced Ceramics and Composites (ICACC'15), Daytona Beach, FL, 2015.
4. Murali, S., and R.A. Haber. Formulation of Stable Suspensions of hexagonal boron nitride for lubrication applications. 39th International Conference. on Advanced Ceramics and Composites. January 2015, Daytona Beach, FL.
5. Munhollon, T., Rafaniello, W., & Haber, R. A. . Processing of Boron Rich Boron Carbide. 39th Int'l Conf & Expo on Advanced Ceramics & Composites (ICACC 2015), 2015 January, Daytona Beach, FL
6. Munhollon, T., Etzold, A., Toksoy, M.F., Haber, R.A., Rafaniello, W., Synthesis and Processing of Boron Carbide and Si-doped Boron Carbide. (INVITED TALK), DSTL Dynamic Materials Conference, Wiltshire UK, October 2015
7. A. Etzold, R. A. Haber, and W. Rafaniello. Screening of Silicon Precursors for Incorporation into Boron Carbide, 39th International Conference on Advanced Ceramics and Composites, January 2015, Daytona Beach, FL
8. A. Etzold, R. A. Haber, V. Domnich, and W. Rafaniello. Introduction of Silicon into Boron Carbide via Reaction Bonding, MACH April 2015, Annapolis MD.
9. Örnek, M., Hwang, C., Domnich, V., Miller, S. L., Mayo, W. E. and Haber, R. A. Synthesis and Crystallization Behavior of Amorphous Boron Nitride, 39th International Conference on Advanced Ceramics and Composites, January 2015, Daytona Beach, FL.
10. C. Hwang, M. Ornek, V. Domnich, W. E. Mayo, S. L. Miller, and R. A. Haber, "c-BN Seeding Effect on the Phase Transition of a-BN(OC) Compound," 39th International Conference and Expo on Advanced Ceramics and Composites, January 2015, Daytona Beach, FL.
11. C. Hwang, M. Ornek, V. Domnich, W. E. Mayo, S. L. Miller, and R. A. Haber, "Overview of cBN Research," Armor Subgroup meeting in 39th International Conference and Expo on Advanced Ceramics and Composites, January 2015, Daytona Beach, FL.

12. K. Kuwelkar, V. Domnich, R.A. Haber, (INVITED TALK) *Characterization of Boron Carbide Powders and Ceramics*, DSTL Dynamic Materials Conference, Wiltshire UK, October 2015
13. K. Kuwelkar, V. Domnich, J. Hogan, D. Mallick, R. Haber, *Characterization of Boron Carbide Fragments Subjected to Static and Dynamic Loading*, 2015 MACH Conference, April 2015, Annapolis, MD
14. Munhollon, T., Rafaniello, W. and Haber, R.A. Processing of Boron Rich Boron Carbide, (INVITED TALK) MACH 2015, April 2015, Annapolis MD
15. V. Domnich, K. A. Kuwelkar, R. A. Haber, P. G. Karandikar, *Structural Investigations in the Silicon - Boron Carbide System*, The American Ceramic Society 39th International Conference and Exposition on Advanced Ceramics and Composites, January 2015, Daytona Beach, FL
16. K. Kuwelkar, V. Domnich, W. Rafaniello, R.A. Haber, *Assessing the Carbon Concentration in Boron Carbide: A Combined X-ray Diffraction and Chemical Analysis*, The American Ceramic Society 39th International Conference and Exposition on Advanced Ceramics and Composites, January 2015, Daytona Beach, FL
17. V.DeLucca, R.A.Haber. "Influence of Powder Oxygen Content on Silicon Carbide Microstructure and Properties." 39th International Conference on Advanced Ceramics and Composites, January 2015, Daytona Beach, FL.
18. V. DeLucca, Z. Ayguzer, M. Montgomery, S. Souza, R.A. Haber. "Examining the Influence of Powder Oxygen Content on Silicon Carbide Microstructure and Properties." MACH 2015, April 2015, Annapolis, MD.
19. J. L. Prati, M. J. Matthewson, R.A. Haber, *Designing a Model for Polymeric Binder Degradation, Volatilization and Diffusion Through a Porous Media*, MS&T, Columbus 2015

2016

1. C. Hwang, M. Ornek, V. Domnich, W. E. Mayo, S. L. Miller, and R. A. Haber, "Overview of Boron Nitride Research," Armor Subgroup meeting in 40th International Conference and Expo on Advanced Ceramics and Composites, January 2016, Daytona Beach, FL.
2. K. A. Kuwelkar, V. Domnich, J. D. Hogan, D. Mallick, R. A. Haber, *Characterization of Boron Carbide Fragments Subjected to Dynamic and Static Loading*, The American Ceramic Society 40th International Conference and Exposition on Advanced Ceramics and Composites, January 2016, Daytona Beach, FL
3. K. A. Kuwelkar, K. Behler, V. Domnich, R. A. Haber, *Investigation of the Structural and Physical Properties of Boron Carbide Across the Solubility Range*, The American Ceramic Society 40th International Conference and Exposition on Advanced Ceramics and Composites, January 2016, Daytona Beach, FL
4. T. L. Munhollon, K. Xie, L. Farbaniec, V. Domnich, R. A. Haber, *Effect of Boron to Carbon Ratio on the Properties of Boron Carbide*, The American Ceramic Society 40th International Conference and Exposition on Advanced Ceramics and Composites, January 2016, Daytona Beach, FL
5. A. Etzold and R. A. Haber. Reduction of Silicon Carbide in Silicon Doped Boron Carbide for Sinterability and Increased Toughness, 40th International Conference on Advanced Ceramics and Composites, January 2016, Daytona Beach, FL
6. A. Etzold, R. A. Haber, V. Domnich, and W. Rafaniello. Diffusion of Silicon into Boron Carbide Lattice, MACH April 2016, Annapolis MD.
7. Kuwelkar, K., Domnich, V., Behler, K., & Haber, R. A. "Investigation of the Structural and Physical Properties of Boron Carbide Across the Solubility Range," Presentation, 40th International Conference and Exposition on Advanced Ceramics and Composites, Daytona Beach, Florida, 2016.
8. Kuwelkar, K., Domnich, V., Hogan, J., Mallick, D., & Haber, R.A. "Characterization of Boron Carbide Fragments Subjected to Dynamic and Static Loading," Presentation, 40th International Conference and Exposition on Advanced Ceramics and Composites, Daytona Beach, Florida, 2016.

9. Munhollon, T., Rafaniello, W., Haber, R.A. Understanding the Effects of Varying the Boron to Carbon Ratio on the Properties of Boron Carbide. 40th Int'l Conf & Expo on Advanced Ceramics & Composites (ICACC 2016), 2016 January, Daytona Beach, FL
10. Ayguzer Yasar Z., R.A, Haber and W. Rafaniello SPS Sintered Silicon Carbide- Boron Carbide Composites, 40th International Conference on Advanced Ceramics and Composites, January 2016,Daytona Beach, FL.
11. V.DeLucca, R.A.Haber. "Evaluating the Effect of Powder Oxygen Content on Silicon Carbide Morphology." 40th International Conference on Advanced Ceramics and Composites, January 2016, Daytona Beach, FL.
12. I. Maher and R. A. Haber: October 2016 MS&T Salt Lake City Utah - *Compaction Behavior of Spray-Dried Alumina Granules*
13. Alazzawi, M., Haber R., The effect of paste water content on the green microstructure of extruded titanium dioxide. Oct 2016, MS&T.
14. Azmi M. Celik, Richard A. Haber, Synthesis, Densification and Characterization of Sinterable Titanium Diboride Powders, Apr 2016, MACH Conference on Extreme Materials
15. Azmi M. Celik, Richard A. Haber, William Rafaniello, Synthesis of Sinterable Titanium Diboride (TiB₂) Powders, 40th International Conference and Exposition on Advanced Ceramics and Composites, Daytona Beach, Florida, 2016.
16. C. Hwang, M. Ornek, K. M. Reddy, S. Miller, V. Domnich, K. Hemker, and R. A. Haber, "Crystallization behavior of a-BNCO compounds under pressure and heat," 2016 MACH Conference
17. Examining the influence of powder oxygen content on SiC microstructure and properties, V.DeLucca, R.Haber, 2016 MACH CONFERENCE ON EXTREME MATERIALS, Annapolis MD 2016
18. TEM characterization of plasma sprayed boron nitride, M.Kolan, C.Hwang, S.Miller, R.Haber, K.Hemker, 2016 MACH CONFERENCE ON EXTREME MATERIALS, Annapolis MD 2016
19. Microstructural Characterization of boron rich boron carbides, K.Xie, F.Toksoy, R.Haber, J.LaSalvia, J.McCauley, K.Hemker, 2016 MACH CONFERENCE ON EXTREME MATERIALS, Annapolis MD 2016
- 20.

2017:

1. M. Örneke, C. Hwang, K.Y. Xie, SP. Silva, J. Calado, KM. Reddy, A. Burgess, V. Domnich, SL. Miller, K.J. Hemker and RA. Haber, Observations of metastable explosion and wurtzite phases of boron nitride formed by emulsion detonation synthesis, Poster presented at 41st International Conference and Exposition on Advanced Ceramics and Composites January, 2017, Daytona Beach, Florida
2. Yang, Hwang, Khan, Domnich, Xie, Ma, Hemker, and HaberThe study of Si-O and Si-O-C coating on boron carbide powder and its effect of the bulk mechanical properties, presented at 41st International Conference and Exposition on Advanced Ceramics and Composites January, 2017, Daytona Beach, Florida
3. Atta U. Khan, Q. Yang, Richard A. Haber, Synthesis and mechanical properties of polycrystalline Mg₃B₅₀C₈, April 2017, MACH Conference on Extreme Materials (INVITED)
4. Azmi M. Celik, Richard A. Haber, William Rafaniello, Effect of Synthesis and Sintering Parameters on Densification and Mechanical Properties of Titanium Diboride (TiB₂) Ceramics, , presented at 41st International Conference and Exposition on Advanced Ceramics and Composites January, 2017, Daytona Beach, Florida
5. K. Xie, V. Domnich, J. McCauley, R. Haber, K. Hemker, To twin or not to twin in boron carbide, 2017 MACH Conference, April 2017, Annapolis, MD

6. A. Etzold, R. Haber, V. Domnich, Composition and analysis for bulk silicon doped boron carbide formation, 2017 MACH Conference, April 2017, Annapolis, MD
7. M. Schaefer, V. Domnich, R. A. Haber, Hardness and indentation-induced amorphization in B_xC (x = 4.1... 9.4), 2017 MACH Conference, April 2017, Annapolis, MD
8. V. Domnich; M. Schaefer; K. Kuwelkar; R. A. Haber, Investigation of indentation-induced amorphization in B₄+x₂C (x = 0.2... 4.8), The American Ceramic Society 41st International Conference and Exposition on Advanced Ceramics and Composites, January 2017, Daytona Beach, FL
9. A. M. Etzold; R. A. Haber; V. Domnich; A. Khan, High temperature coupling of boron carbide and silicon hexaboride for diffusion mapping and mechanical testing, The American Ceramic Society 41st International Conference on Advanced Ceramics and Composites, January 2017, Daytona Beach, FL
10. C. Hwang; S. DiPietro; K. Xie; Q. Yang; A. Khan; V. Domnich; K. Hemker; R. A. Haber, Preparation of boron carbide with SiC intergranular phase, The American Ceramic Society 41st International Conference on Advanced Ceramics and Composites, January 2017, Daytona Beach, FL
11. Prikhna T.A., Haber R.A., Barvitskiy P.P., Sverdun V.B., Dub S.N., Muratov V.B., Domnich V., Moshchil V.E., Karpets M.V., Loshak M.G., Kovylaev V.V., Kozyrev A.V., Synthesis, sintering, structure and properties of AlB₁₂C₂ – based materials, The American Ceramic Society 41st International Conference on Advanced Ceramics and Composites, January 2017, Daytona Beach, FL
12. Investigation of the structural and physical properties of boron carbide across the solubility range, K. Kuwelar, V.Domnich, K.Behler, R.Haber, 2017 MACH CONFERENCE ON EXTREME MATERIALS, Annapolis MD 2017

2018:

1. I. Maher and R. A. Haber: January 2018 ICACC Daytona Florida - *Visualizing Microstructural Variations and Compaction Characteristics of Spray-Dried Alumina*
2. Zeynep Ayguzer Yasar, Richard A.Haber- Evaluation of Carbon Additive on Silicon Carbide-Boron Carbide Composites Sintered by Spark Plasma Sintering Method- January 2018 ICACC Daytona Beach, Florida
3. M. Örnek, C. Hwang, KY. Xie, SP. Silva, J. Calado, KM. Reddy, A. Burgess, V. Domnich, SL. Miller, KJ. Hemker and RA. Haber, Observations of metastable explosion and wurtzite phases of boron nitride formed by emulsion detonation synthesis, Presented at 42nd International Conference and Exposition on Advanced Ceramics and Composites January, 2018, Daytona Beach, Florida.
4. Alazzawi M., Haber, R. Characterization of Catalyst Support Porosity Using a Visualization and Segmentation Approach, Presented at 42nd International Conference and Exposition on Advanced Ceramics and Composites January, 2018, Daytona Beach, Florida.
5. Yang, Domnich, Hwang, Khan, and Haber Liquid phase doping of boron carbide with silicon via arc melter, Presented at 42nd International Conference and Exposition on Advanced Ceramics and Composites January, 2018, Daytona Beach, Florida.
6. Yang, Domnich, Hwang, Khan, and Haber: April 2018 MACH Conference (presentation) – Heat treatment of arc melted Si-doped boron carbide
7. Atta U. Khan, K. Xie, Q. Yang, V. Domnich, K. Hemker, Richard A. Haber, Synthesis, sintering and mechanical properties of B₆O, April 2018, MACH Conference on Extreme Materials.
8. Atta U. Khan, K. Xie, Q. Yang, V. Domnich, K. Hemker, Richard A. Haber, Synthesis, sintering and mechanical properties of B₆O, , Presented at 42nd International Conference and Exposition on Advanced Ceramics and Composites January, 2018, Daytona Beach, Florida.
9. Azmi M. Celik, Chawon Hwang, Vladislav Domnich, Atta U. Khan, Richard A. Haber, Effect of Sintering Parameters on Densification and Properties of B₄C-TiB₂ Composites Densified via Spark Plasma Sintering, , Presented at 42nd International Conference and Exposition on Advanced Ceramics and Composites January, 2018, Daytona Beach, Florida.

10. M. C. Schaefer, V. Domnich, R. A. Haber, Studying Indentation-Induced Amorphization in Boron Carbides of Varying Stoichiometry, 2018 MACH Conference, April 2018, Annapolis, MD
11. M. C. Schaefer, V. Domnich, R. A. Haber, Amorphization Mitigation in Boron-Rich Boron Carbides, 2018 MACH Conference, April 2018, Annapolis, MD
12. C. Hwang; S. DiPietro; K. Xie; Q. Yang; A. U. Khan; V. Domnich; K. Hemker; R. A. Haber, Incorporation of TiB₂ as Intergranular Phase in Boron Carbide, The American Ceramic Society 42nd International Conference and Exposition on Advanced Ceramics and Composites, January 2018, Daytona Beach, FL
13. M. Gagnepain; A. M. Etzold; A. U. Khan; V. Domnich; C. Hwang; K. D. Behler; J. LaSalvia; R. A. Haber, Optimization of Consolidation Parameters and the Resulting Mechanical Properties of Bulk Silicon Doped Boron Carbides, The American Ceramic Society 42nd International Conference and Exposition on Advanced Ceramics and Composites, January 2018, Daytona Beach, FL
14. M. C. Schaefer; V. Domnich; R. A. Haber, The Effect of Heating on Indented Boron Carbides of Varying Stoichiometry, The American Ceramic Society 42nd International Conference and Exposition on Advanced Ceramics and Composites, January 2018, Daytona Beach, FL (INVITED)
15. T. Prikhna; R. A. Haber; V. Domnich; P. Barvitskyi; S. Dub; M. Karpets; V. Muratov, Synthesis and Characterization of Dense Aluminum Dodecaboride - Based Ceramics with Enhanced Properties, The American Ceramic Society 42nd International Conference and Exposition on Advanced Ceramics and Composites, January 2018, Daytona Beach, FL
16. A. M. Etzold; V. Domnich; K. D. Behler; K. Xie; J. LaSalvia; R. A. Haber, Mitigation of Amorphization in Boron Carbide Achieved by Silicon doping Through High Temperature Coupling of Boron Carbide and Silicon Hexaboride, The American Ceramic Society 42nd International Conference and Exposition on Advanced Ceramics and Composites, January 2018, Daytona Beach, FL
17. V. Domnich; M. C. Schaefer; R. A. Haber, In-situ Investigation of Shear Induced Amorphization in Boron Carbide with Varying B/C Ratios, The American Ceramic Society 42nd International Conference and Exposition on Advanced Ceramics and Composites, January 2018, Daytona Beach, FL
18. C. Hwang, Q. Yang, A. U. Khan, V. Domnich, and R. A. Haber, "Fabrication of Dense B₄C-Pre ceramic Polymer Derived SiC Composite," 2018 MACH Conference
19. M.C. Schaefer, V. Domnich, R.A. Haber, "Heat Treatment and Its Effect on Amorphization in Boron Carbides of Varying Stoichiometry, The American Ceramic Society 42nd International Conference and Exposition on Advanced Ceramics and Composites, January 2018, Daytona Beach, FL
20. C.J.Marvel, A.Etzold, V.Domnich, K.D.Behler, J.C.Lasalvia, R.A.Haber, M.Watanabe, M.P.Harmer, Zeta-Factor Development and Quantification of a Boron Carbide and Silicon Hexaboride Diffusion Couple,
21. The effect of annealing on arc melted Si-doped boron carbide, B.Yang, A.U.Khan, C.Hwang, V.Domnich, R.Haber, 2018 MACH CONFERENCE ON EXTREME MATERIALS, Annapolis MD 2018
22. Boron based ceramics in extreme environments, R.Prikhna, V.V.Kartusov, P.P.Barvitskyi, E.V.Katrutzov, R.Haber, 2018 MACH CONFERENCE ON EXTREME MATERIALS, Annapolis MD 2018 (INVITED)

2019

1. Tatiana Prikhna, P.Barvitskyi, V.Moshchil, R.A.Haber, V. Domnich, S.Dub, M.Karpets, V.Muratov, Aluminum-dodecaboride, boron carbide based and silicon carbide, lightweight ceramics, 43rd International Conference and Expo on Advanced Ceramics and Composites, Florida, USA, January (2019) (INVITED)
2. Chawon Hwang, Qirong Yang, Sisi Xiang, Vladislav Domnich, Atta U. Khan, Kelvin Y. Xie, Kevin J. Hemker, Richard A. Haber, "Fabrication of dense B₄C-SiC composite via pre ceramic polymer route," 43rd International Conference and Expo on Advanced Ceramics and Composites, Florida, USA, January (2019)

3. A.M. Celik, C. Hwang, V. Domnich, A.U. Khan, R. Haber, Advancing mechanical properties of boron carbide by titanium diboride addition, 43rd International Conference and Expo on Advanced Ceramics and Composites, Florida, USA, January (2019)
4. I. Maher and R.A. Haber, Evaluating and Visualizing the Effect of Binders on the Green Strength of Dry-Pressed Alumina, 43rd International Conference and Expo on Advanced Ceramics and Composites, Florida, USA, January (2019)
5. Qirong (Bruce) Yang, Azmi M. Celik, Chawon Hwang, Vlad Domnich, Atta Khan, Rich A. Haber, TiB₂ reinforced Si-doped boron carbide prepared using reactive hot pressing, 43rd International Conference and Expo on Advanced Ceramics and Composites, Florida, USA, January (2019)
6. Mustafa K. Alazzawi, Charles Rohn, Berra Beyoglu, and Richard A. Haber. A Novel Method for Characterizing the Dispersion of Additive Manufacturing Ceramic Suspensions, 43rd International Conference and Expo on Advanced Ceramics and Composites, Florida, USA, January (2019)
7. M.C.Schaefer, A. Chauhan, K.Hemker, R.Haber, V.Domnich, Onset Conditions to Induce Aporphization in Doped Boron Carbides in a Diamond Anvil Cell, 43rd International Conference and Expo on Advanced Ceramics and Composites, Florida, USA, January (2019)
8. C.Marvel, A.M.Etzold, V.Domnich, K.D.Behler, J.LaSalvia, R.Haber, M.P.Harmer, Structure and Chemical Quntification of Grain Boundaries in a Boron Carbide and Silicon Hexaboride Diffusion Couple, 43rd International Conference and Expo on Advanced Ceramics and Composites, Florida, USA, January (2019)
9. M.Gagnepain, A.U.Khan, C.Hwang, R.Haber, Optimization of Consolidation Parameters and Characterization of Bulk Silicon Doped Boron Carbides, 43rd International Conference and Expo on Advanced Ceramics and Composites, Florida, USA, January (2019)
10. B.Beyoglu, M.K.Alazzawi, R.Haber, Microstructural Evaluation of SLA Printed Alumina, 43rd International Conference and Expo on Advanced Ceramics and Composites, Florida, USA, January (2019)
11. S.Xiang, B.Yang, C.Hwang, R.Haber, K.Y.Xie, Characterization of Al-doped boron carbide, 43rd International Conference and Expo on Advanced Ceramics and Composites, Florida, USA, January (2019) (INVITED)
12. S.Xiang, B.Yang, C.Hwang, R.Haber, K.Y.Xie, Quasi-plastic zone characterization of regular and Si-doped boron carbide, 43rd International Conference and Expo on Advanced Ceramics and Composites, Florida, USA, January (2019)
13. Microstructural Investigation of Amorphization Resistant Silicon and Boron Doped Boron Carbide, C. Marvel, B. Yang, V.Domnich, J.LaSalvia, R.Haber, M.Harmer, 2019 MACH CONFERENCE ON EXTREME MATERIALS, Annapolis MD 2019
14. Structure and Properties of aluminum dodecaboride and boron carbide based ceramics, modeling and tests of ballistic characteristics, T.Prikhna, P.Barvitishyi, R.Haber, V.Domnich, BIKarpinos, V.Kulish, 2019 MACH CONFERENCE ON EXTREME MATERIALS, Annapolis MD 2019
15. Onset of Conditions to Induce Amorphization of Doped Boron Carbides in a Diamond Anvil Cell, M.Schaefer, R.Haber, V.Domnich, 2019 MACH CONFERENCE ON EXTREME MATERIALS, Annapolis MD 2019 (INVITED)
16. Suppresion of Amorphization in Boron Carbide: Silicon or Boron doping, B.Yang, C.Marvel, V.Domnich, J.LaSalvia, R.Haber, 2019 MACH CONFERENCE ON EXTREME MATERIALS, Annapolis MD 2019
17. I. Maher and R.A. Haber, Evaluating and Visualizing the Effect of Binders on the Green Strength of Dry-Pressed Alumina, 2019 MACH CONFERENCE ON EXTREME MATERIALS, Annapolis MD 2019
18. Rosenberger, A., Ku, N., Vargas-Gonzalez, L., Alazzawi, M.K., Haber, R.A. (2019) Unlocking Ceramic Microstructure Control Through Additive Manufacturing, Materials Science and Technology 2019 Conference and Exposition, Portland, Oregon.

1. S. Kondapalli, M. K. Alazzawi B.Beyoglu, R.Haber, Evaluating the Effect of Rheology and Printing Parameters on Direct Writing, 44th International Conference and Expo on Advanced Ceramics and Composites, Florida, USA, January (2020)
2. C. Hwang, S. DiPietro, K. Xie, Q. Yang, A. Celik, A. Khan, V. Domnich, S. Walck, K. Hemker, and R. A. Haber, "Small amount TiB₂ addition to improve mechanical properties of B₄C," 44th International Conference and Expo on Advanced Ceramics and Composites, Florida, USA, January (2020)
3. Alazzawi, M. K., Beyoglu, B., & Haber, R. A. Establishment of the degree of dispersion effect in stereolithography, 44th International Conference and Expo on Advanced Ceramics and Composites, Florida, USA, January (2020)
4. M.C.Schaefer, K.Behler, J.LaSalvia, K.Hemker, R.A.Haber, Developing Techniques to Induce and Characterize Amorphization in Doped Boron Carbide Materials, 44th International Conference and Expo on Advanced Ceramics and Composites, Florida, USA, January (2020).
5. M.C.Schaefer, K.Behler, J.LaSalvia, K.Hemker, R.A.Haber, Developing Techniques to Induce and Characterize Amorphization in Doped Boron Carbide Materials, 44th Annual Conference on Composites, Materials, and Structures, Florida, USA, January (2020).
6. Q. Yang, C.J. Marvel, C. Hwang, K.H. Christian, H. Charalambous, J.C. LaSalvia, M.P. Harmer, and R.A. Haber, Mitigating amorphization in boron carbide: Si vs B doping, 44rd International Conference and Expo on Advanced Ceramics and Composites, Florida, USA, January (2020)
7. Q. Yang, C.J. Marvel, C. Hwang, J.C., J. Du, E.D. Gronsk, K.Y. Xie, S.T. Mecurio, M.P. Harmer, and R.A. Haber, 44rd International Conference and Expo on Advanced Ceramics and Composites, Florida, USA, January (2020)
8. K.Christian, and R.A. Haber, Alternative Method for Preparing Silicon Doped Boron Carbide, 44rd International Conference and Expo on Advanced Ceramics and Composites, Florida, USA, January (2020)
9. T.Prikhna, R.Haber, P.Bartvitsky, A.Neshpor, V.Moshchil, V.Muratov, L.Devin, S.Dub, E.Pryslazhna, A.Lokatkina, Composite Armor based on Borides and Carbides, 44rd International Conference and Expo on Advanced Ceramics and Composites, Florida, USA, January (2020)
10. I.Maher, R.Haber, 3D Visualization of Unfired Al₂O₃ Dry Pressed Bodies, 44rd International Conference and Expo on Advanced Ceramics and Composites, Florida, USA, January (2020)
11. S.Xiang, Q.Yang, C.Hwang, J.LaSalvia, R.Haberf and K.Xie, Quasi Plastic Zone Characterization of Regular and Si Doped Boron Carbide, 44rd International Conference and Expo on Advanced Ceramics and Composites, Florida, USA, January (2020) (INVITED)
12. H.Wolf, Q.Yang, K.Behler, J.LaSalvia, R.Haber, M.Harmer, C.Marvel, Quantitative Characterization of Arc Melted Si Doped Boron Rich Ceramics, 44rd International Conference and Expo on Advanced Ceramics and Composites, Florida, USA, January (2020)
13. Z.A.Yasar and R.A.Haber, Effect of Silicon Carbide Addition in Boron Carbide, 3th International Defence Industry Symposium. April 2020 in Kirikkale,Turkey.

14. McAleer, E., Akdoğan, E.K., Matthewson, M.J., Haber, R.A. (2020). *Modeling Polymeric Binder Removal in Porous Green Bodies*. 44th International Conference and Expo on Advanced Ceramics and Composites, Daytona Beach, FL.

2021

1. C. Hwang, I. Petrusha, T. Prikhna, M. Örneke, R. A. Haber, M. Karpets, S. Ponomarev, S. Dub, V. Moshchil, "Synthesis of Superhard Bulk Nanocrystalline Cubic Boron Nitride through a Novel Route," 45th International Conference and Expo on Advanced Ceramics and Composites, Virtual Event, Feb. 8-12 (2021)
2. C. Hwang, M. C. Schaefer, A. Chauhan, V. Domnich, K. Hemker, R. A. Haber, "Onset Conditions to Induce Amorphization of Doped Boron Carbides in a Diamond Anvil Cell," 45th International Conference and Expo on Advanced Ceramics and Composites, Virtual Event, Feb. 8-12 (2021)
3. Victoria Tsarkova, Mustafa Alazzawi, Chawon Hwang, Richard A. Haber, Preparation of Silicon Nitride Suspensions for Additive Manufacturing by Stereolithography, 45th International Conference and Expo on Advanced Ceramics and Composites, Virtual Event, Feb. 8-12 (2021)
4. Alazzawi, M. K., Kondapalli, S. S., Beyoglu, B., Haber, R. A. (2021) Cure Depth of Photocurable Ceramic and Metal Suspensions, 45th International Conference and Exposition on Advanced Ceramics and Composites, Virtual Conference.
5. Rosenberger, A., Ku, N., Vargas-Gonzalez, L., Alazzawi, M.K., Haber, R.A. (2021) Grain-Boundary Control in Additive Manufactured Textured Alumina, 45th International Conference and Exposition on Advanced Ceramics and Composites, Virtual Conference.
6. Kondapalli, S., Alazzawi, M.K., Beyoglu, B., Haber, R. A. (2021) Direct Writing and Cure Depth of Photocurable Materials, 45th International Conference and Exposition on Advanced Ceramics and Composites, Virtual Conference.
7. McAleer, E., Alazzawi, M.K., Hwang, C., Akdogan, E. K., Haber, R. A. (2021) Modeling Binder Removal and Mapping Binder Distribution in Green Ceramics, 45th International Conference and Exposition on Advanced Ceramics and Composites, Virtual Conference.
8. K. Christian, J. Du, R. A. Haber, "Comminution of Hard Materials," Ceramic, Composite and Optical Materials Center, Virtual Event, June 24 (2020)
9. K. Christian, Q. Yang, J. Du, R. A. Haber, "Amorphization Resistant Boron Carbide Produced by Low-Cost Pre-Reacted Powder," 45th International Conference and Expo on Advanced Ceramics and Composites, Virtual Event, Jan. 8-11 (2021)
10. K. Christian, C. Weatherstone, J. Du, R. A. Haber, "Sintering Doped Boron Carbide from Pre-Reacted Powder," Mach Conference, Virtual Event, Apr. 7-9 (2021)
11. J. Du, Q. Yang, L. Ma, C. Hwang, C. J. Marvel, M. He, C. Cheng, S. DiPietro, L. C. Klein, M. Chen, K. Y. Xie, K. J. Hemker, R. A. Haber, "Tuning grain boundary chemistry of boron carbide through a sol-gel approach" 45th International Conference and Expo on Advanced Ceramics and Composites, Virtual Event, Feb. 8-12 (2021)

2022

1. N.Henson, R. Haber, Heat Treatment of Arc Melted ZrB₂ – SiC Ceramics, CMS 2022, St. Augustine, FL 2022

2023

1. K.Christian, R.Haber, Advancing Fracture Behavior of Carbides with Arc Melt Processing, CMS 2023, St. Augustine, FL 2023
2. A. Periera, R.Haber, Investigating Residual Stress in Doped Boron Carbide via Raman Spectroscopy, CMS 2023, St. Augustine, FL 2023
3. A. Pasara, R. Haber, Advancing Phase Chemistry of Boron Carbide with Arc Melt Processing, CMS 2023, St. Augustine, FL 2023
4. K.Christian, R.Haber, Thermal Property Analysis for Silicon Doped Boron Carbide Systems, CMS 2023, St. Augustine, FL 2023
5. N.Pantula, B.Beyoglu, R.Haber, Optimizing Washability of Uncured Ceramic Material in Stereolithography Methods, CMS 2023, St. Augustine, FL 2023
6. E. Wirkijowski, R.Haber, V.Tsarkova, M.Alazzawi, Additive Manufacturing of ZrC by SLA, CMS 2023, St. Augustine, FL 2023

Teaching

Undergraduate Courses

1. Engineering Design I (1985-present)
2. Engineering Design II (1985-present)
3. Ceramic Compositions (1985-1989, 2002)
4. Minerals Engineering (1984-1985)
5. Raw Materials and Processing (1985-1991)
6. Senior Seminar I (1993-1997, 2004-present)
7. Senior Seminar II (1993-1997, 2004-present)
8. Engineering Co-Op Internship (1999-2003)
9. Senior Laboratory-Faculty Advisor (1985-2006)
10. Special Programs in Ceramic Engineering (1991-2004)
11. Engineering Orientation (1992-2000, 2002-2005)
12. Ceramic Processing I (1997-2001)
13. Refractories (2002-2006)
14. Whitewares (1999, 2000, 2002)
15. Laboratory I (2003)
16. Ceramics (2018)

Graduate Courses

1. Advanced Whitewares (1999-2001)
2. Graduate Seminar (1991, 2001)

Research Supervision

Completed Degrees:

1. Gregory Hannon, MS and PhD
2. Kenneth Hatton, MS and PhD

3. Michael Cohn, MS and PhD
4. Marit Hanninen, MS
5. Lynn Kowzan Mills, MS
6. William Fischer, MS and PhD
7. Joseph Auburn, MS
8. Daniel Ashkin, MS and PhD
9. Joseph Keller, MS and PhD
10. Andrew Haerle, MS and PhD
11. Shifan Cheng MS and PhD
12. Tonthai Tien, MS and PhD
13. Nor Azmah Kadir, MS
14. John Martin, MS and PhD
15. Peter Smith, MS and PhD
16. Fred Mazzeo MS and PhD
17. Cecilia Paredes MS and PhD
18. Hasan Gocmez, MS and PhD
19. Hill, Kimberly, MS
20. McCuiston, Ryan, PhD
21. Shawn Nycz, MS and PhD
22. Chris Ziccardi, MS
23. Nestor Gonzales, MS
24. Raymond Brennan, PhD
25. Navin Venugopal, MS and PhD
26. M.Volkan Demirbas, MS PhD
27. Cari August, MS and PhD
28. Daniel Maiorano, MS and PhD
29. Andrew Portune, MS and PhD
30. Steven Mercurio, MS and PhD
31. Fatih Toksoy, MS and PhD
32. Nick Ku, MS and PhD
33. Douglas Slusark, MS and PhD
34. Minh Vu, MS and PhD
35. Steve Bagieniski, MS
36. Vincent DeLucca, MS and PhD (2017)
37. Kanak Kuwelkar, MS, PhD (2017)
38. Metin Ortin, MS, PhD (2017)
39. Anthony Etzold, MS, PhD (2017)
40. Tyler Munhollen, MS, PhD (2017)
41. Zeynep Ayguzar, Yasar, MS, PhD (2019)
42. Ian Maher, MS, PhD (2019)
43. Azmi Celik, MS (2017), PhD (2020)
44. Mark Schaefer, MS (2017), PhD (2020)
45. Michael Gagnepain, MS (2018)
46. Bruce Yang, MS(2017), PhD (2020)
47. Mustafa Al-Awazzi, MS(2017) PhD (2021)
48. Sweta Kondapali, MS (2020)
49. Kent Christian, MS (2020)
50. Victoria Tsarkova, MS (2022)
51. Frank Maniaci, MS (2022)
52. Coleman Weatherstone, MS
53. Matthew Koelle, MS (2022)

54. Kent Christian MS/PhD (2022)
55. Sweta Kondapali MS/PhD (2022)
56. Emily Drauss, MS (2022)
57. Coleman Weatherstone, MS (2022)
58. Alex Pasara MS (2023)
59. Andrew Periera, MS (2023)
60. Nicholas Henson, MS (2023)
61. Eoin McAleer, PhD (2023) Co-Advised with K. Akdogan
62. Eliza Wirjikowski, MS (2023)

Degrees in Progress:

1. Jon Oliver, PhD
2. Eliza Wirkijowski, MS (2023)

2017-2023 Post Doctoral Researchers, Research Associates and Visiting Researchers

1. Vladislav Domnich PhD (RA)
2. Chawon Hwang PhD (PD)
3. Atta Khan PhD (PD)
4. Sukanya Murali PhD (PD)
5. Jun Du PhD (PD)
6. Berra Beyoglu PhD (PD)
7. Zeynep Ayguzar Yasar (PD)
8. William Rafaniello PhD (VS)
9. Michael Normandia PhD (VS)
10. Azmi Mert Celik PhD (PD)

Service

Courses Taught:

1. Ceramic Compositions
2. Raw Materials and Processing
3. Refractories
4. Whitewares
5. Advanced Whitewares
6. Ceramic Engineering Design
7. Materials Engineering Design
8. Case Studies in Manufacturing
9. Minerals Engineering
10. Senior Seminar
11. CoOp Internships

Contributions to School of Engineering

1. Member of Committee on Committees (2011-present)
2. Member of Course of Study Committee (1991-2004)
3. Co-Chair (along with William Librera, GSE) K-16 Planning Committee for SOE/GSE (2005-Present)

4. Member, SOE Hearing Board (2004-Present)
5. Chairman, COE, Course of Study Committee (2002-2005)
6. Mentor, Douglas Project (1999-Present)
7. Member of the Scholastic Standing Committee (1991-2005)
8. Faculty Advisor, Keramos (1983-2005)
9. Member, College of Engineering Admissions Committee (1993-2005)
10. Chairman, School Admissions Committee (1996-1997 & 2002-2003)
11. Member Rutgers University Retention Council (1996-1998)
12. Chairman, Committee on Committees (2008-present)
13. Member, Dean's Committee on Centers (2010-present)

Contributions to Department of Material Science and Engineering

1. Supervised USACA Undergraduate Internship program for students attending the Annual Ceramic and Composites meeting in Cocoa Beach Florida 2012-present
2. Supervised ARL ORISE Summer Fellowship Students 2014-present
3. Direct the CCOMC Recharge Center (2008-present)
4. Site Director, Ceramic, Composite and Optical Materials Center – an NSF IUCRC (2010-present)
5. Executive Director, Ceramic and Composite Materials Center – an NSF IUCRC (2004-2009)
6. Director, Center for Ceramic Research (2004-Present)
7. Associate Director, Center for Ceramic Research (2002-2004)
8. Program Manager, Material Center of Excellence in Ceramic Armor (2005-Present)
9. Chair Advisory Committee (2003-Present)
10. Undergraduate Director (1991-1999, 2001-2004)
11. ABET Accreditor Course Training (2000)
12. Member Faculty Search Committee (2002)
13. Chair, Undergraduate Scholarship Committee (1991-Present)
14. Chair, Malcolm G. McLaren Undergraduate Scholarship Committee (1998-Present)
15. Member, Corning Fellowship Selection Committee (2006)
16. Member, Department Space Committee (2003-Present)
17. Member, Equipment Committee (2003-Present)
18. Co-Op Coordinator (1999-2004)
19. Member, ABET Committee (1996-Present)
20. Chair, ABET Committee (2001-2004)
21. Member, Curriculum Committee (1991-Present)
22. Chair, Curriculum Committee (1991-1999, 2001-2004)
23. Department Placement Coordinator (1999-Present)
24. Director, Corning Discovery Program (1995-1997)
25. Advisor to High School Students as part of Douglas Project-(2 in 2002, 1 in 2003), CHE Nanomaterials Initiative (2 in 2002, 1 in 2003), RISE (1 in 2002, 1 in 2003, 1 in 2004, 2 in 2006), NJ Governor's School (1 in 2004), Indian Hills High School Student (2 in 2005)

Contributions to the Profession

1. Armor Session Co-Chair, American Ceramic Society, Co-Chair, International Conference and Expo on Advanced Ceramics and Composites, Florida, (2014-Present)
2. Co-Meeting Organizer, MACH Conference, Annapolis, MD (2015-Present)
3. Workforce Development for Ceramic Engineers, United States Advanced Ceramic Association (2015-present)
4. Co-Director, Transparent Armor Roadmap, United States Advanced Ceramic Association (2011-2013)

5. Panel Member, National Research Council, The National Academies, "Opportunity in Protection Materials Science and Technology for Future Army Applications" (2010-2011)
6. Organizer, ARL Armor Workshop, Daytona (2007-present)
7. Organizer, Workshop on Multiscale Modeling Linked to Processing, Daytona (2011)
8. Organizer, Workshop on Boron Carbide, Daytona (2010-present)
9. SBIR Panel Member, National Science Foundation (2009-present)
10. External Review Panel, Lawrence Livermore Laboratories, (2008)
11. Member Advisory Panel, Army Research Laboratory Ballistics Symposium (2008)
12. Member Review Panel, Army Science Conference, (2008)
13. Member, Organizing Committee Army Science Conference (2008)
14. Member, Organizing Committee SPIE Symposium on Space Mirrors (2009)
15. Member, Organizing Committee Army Conference on Multi-scale Materials Behavior Under High and Ultra-high loading Rates (2008)
16. Member, Board of Visitors, Army Research Office, (2007)
17. Organizer, US Airforce Defects/NDE in Ceramic Mirrors, Piscataway, (2007)
18. Advisor, Ceramic Association of New Jersey (2003-Present)
19. President, Ceramic Association of New Jersey (2002)
20. Vice President, Ceramic Association of New Jersey (2001)
21. Chairman, American Ceramic Society Crystalline Silica Panel (1998-2004)
22. Member, American Ceramic Society Legislative and Public Affairs Committee (1999-2004)
23. Technical Advisor, Ball Clay Manufacturers Association, 1996-2010
24. Member, John Marquis Award Committee (1990-2001)
25. Member, American Ceramic Society Long Range Planning Committee (2000-2003)
26. Member, International Organizing Committee 1st International Congress of Ceramics, Toronto (2006)
27. Member, International Organizing Committee SIMCIR (2006)
28. Trustee, Ceramic Manufacturers Council, American Ceramic Society (2000-2003)
29. Co-Organizer, Ceramic Manufacturers Association Meeting (2002-2003)
30. Member, Panel Fellows, American Ceramic Society (1999-2002)
31. Chairman, International Crystalline Silica Conference in Gaithersburg, MD (2002)
32. Member, International Organizing Committee for Mexican Ceramic Society (1995-1997)
33. Member, Organizing Committee, Manufacturers and Suppliers Workshop, American Ceramic Society (1994-Charlotte, 1996-Louisville)
34. Co-Chair, Joint American and Mexican Ceramic Society Workshop, Monterrey, Mexico (1999-2000)
35. Chair, Publications Committee, American Ceramic Society (1998)
36. Chair, Membership Committee, ASTM C-21 (1989-1999)
37. Vice Chair, Materials and Equipment Division, American Ceramic Society (1995)
38. Secretary, Materials and Equipment Division, American Ceramic Society (1994)
39. Program Chair, Materials and Equipment Division, American Ceramic Society (1993)
40. Vice Chair, Whitewares Division, American Ceramic Society (1991)
41. Secretary, Whitewares Division, American Ceramic Society (1990)

42. Program Chair, Whitewares Division, American Ceramic Society (1989)
43. Program Chair, Metropolitan Section, American Ceramic Society (1984-1994)

Reviewer - Journals

American Ceramic Society Bulletin (1993-Present)
American Ceramic Society Journal (1996-Present)
Applied Ceramic Technology (2005-Present)
Ceramic Transactions (1999-Present)
Ceramic Engineering Science and Proceedings (1991-Present)
Diamond and Hard Materials (2010-Present)
Materials Science and Engineering, Elsevier (2002-Present)
Acta Materialia, (2029-present)
Journal of the European Ceramic Society (2016-present)

Reviewer – Books

Marcel Dekker, Noyes Publications, American Ceramic Society

Peer Reviewer Proposals

USAID, US Army Corp of Engineers, National Science Foundation, Air Force Office of Scientific Research, NIOSH, OSHA, Army Research Office, NATO

Legal Consulting Work (past 7 years)

2016-17: E.I. DuPont de NeMours & Co vs. Unifrax I LLC, CA No.14-1250-RGA:
Declaration, Deposition and Testimony in Court
2017-2019: Gillette, Inc vs Dollar Shave Club: Declaration and Deposition
2018: Intercontinental Tile Co vs. US Patent Trade Organization: Declaration (2008),
Deposition (2018)
2021-2022: Amberger Kaolinwerke Eduard KickGMBH & Co. KG, vs. U.S.Silica,
Marshall Tx: Declaration, Deposition and Testimony in Court