

Matthew Eli Katz- Curriculum Vitae

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Education

- 2003-2006 University of Colorado-Boulder** Boulder, CO
Master of Fine Arts Degree recipient
Study of Ceramic Vessel/Sculpture/Installation.
- 1996 – 2000 New York State College of Ceramics at Alfred University** Alfred, NY
Bachelor of Fine Arts degree recipient- cum laude
Ceramics (Major) and Art History (Minor)
Dean's List 1996-2000
Recipient, divisional honors.
Studies in Functional Ceramics, Sculptural Ceramics, Glaze and Surface,
Drawing, Painting, Photography, Sound, Glass, Mixed Media sculpture.
Special studies in Glaze calculation, Clay body development, The History
of Ceramics, Kiln Design, Ceramic Engineering, Material Science, and
Microscopy.

Work Experience

- 2016-Present Ceramic Materials Workshop** Abbottstown, PA
Founder
Offering ceramic materials education online
Both academic and to the public
Montana State University, University of Kansas, Hood College, Harvard
University, and MN New Institute for Ceramic Education
- 2007-Present New York State College of Ceramics at Alfred University** Alfred, NY
Adjunct Faculty
Ceramic Studio, Wheel, Hand building, Slip-casting, Graduate Student
Advising, Senior Advising, Freshman Foundations, Glaze Calculation, Raw
Materials, Advanced Materials Studies
- 2014-Present New York State College of Ceramics at Alfred University** Alfred, NY
Online Ceramic Materials Studies
Designed and implemented online course work for the study of ceramic
materials for matriculated and non-matriculated students. Developed
Introduction to Glaze Formulation Online, Introduction the Clays Online

and Glaze Effects and Color: Online. The first online studies at The New York State College of Ceramics as Alfred University

- 2006-2014** **CSL Materials** Alfred, NY
Research Scientist
- 2006-2014** **Alfred University- Center for Advanced Ceramic Technology** Alfred, NY
Research Scientist and Industrial Consultant
Focus: Glazes and clay bodies, Seger formula (unity molecular formula), role of borates in the Seger formula, studies of glaze development, glaze performance, temperature alteration and variation, firing, flaw analysis, flaw detection, flaw correction, flaw reduction, mixing, material analysis, special effect glazes, color development, body and vehicle armor glaze coatings on silicon carbide in oxidation, thermal expansion matching, glaze and ware durability, freeze/thaw, dispersants, casting slips, and clay body development. Additional studies: architectural ceramics, bio-glass, rapid glass melting, refractories, heating elements, metal enameling, glass coatings for alternative sub-straight
- Special skills: X-ray diffraction, dilatometry, particle size distribution; laser and X-ray, surface area analysis, T.G.A./D.T.A., helium pycnometer, Instron mechanical testing, kilns; electric, gas, tunnel, periodic, gradient, and vacuum, Zygo surface roughness analyzer, Photovolt gloss meter, mercury porosimeter, electron microscopy, E.D.S., optical microscopy, rheometer, viscometer, sheer cell, M.O.E., glass fiber production, spray drying, extrusion, pressing, casting, filter press, slurry mixers, plastic mixers, RoTap sieves, sweco separators, ball mills, sample preparation, mounting and polishing, density, absorption, and specific gravity measurements, product durability testing, laboratory maintenance and upkeep, and management of laboratory assistants
- 2006-2014** **Matt and Dave's Clays** Alfred, NY
Co-Founder-President
Manufacturer of Premium Clays and Clay Products
- 2005** **University of Colorado-Boulder** Boulder, CO
Instructor
Ceramic Studio- Hand building and Wheel for non-majors
- 2004** **University of Colorado-Boulder** Boulder, CO
Instructor
Glaze Calculation and Raw Materials

2003-04	University of Colorado-Boulder Graduate Assistant-Studio Manager Responsibilities include: Repairs and upkeep of Kilns, Mixers, Wheels and Studio Equipment/ Facilities Organization of Studio/Students Ordering and stocking of all materials	Boulder, CO
1999-2003	Alfred University/ Whiteware Research Center Research Scientist/Glaze Expert/ Teaching Assistant Extensive studies In Ceramic Engineering from The Artist's Perspective Industrial Consulting Public and Private Glaze Design	Alfred, NY
2002-03	New York State College of Ceramics at Alfred University Adjunct Faculty Glaze Calculation and Surface Raw Materials	Alfred, NY
2003	Jonathan Adler Consultant Glaze Designer Glaze design for Peruvian manufacturing facility	New York, NY/Lima, Peru
2002	Art Haven Instructor "Ceramics Studio"	Hammondsport, NY
2000-03	Alfred University Teaching Assistant Ceramic Circus Summer School/ Glaze Calculation. Dr. William Carty /Andrea Gill/John Gill	Alfred, NY
2002	The Archie Bray Foundation Teaching Assistant "Revisiting Materials" Dr. William Carty/John Gill	Helena, MT
2000-01	Alfred University Teaching Assistant Sophomore Mold Making Studio. Fall/Spring Semesters 2000/2001, John Gill	Alfred, NY

1999-2000 **Alfred University** Alfred, NY
Demonstration artist for New York State College of Ceramics.
Duties include: Throwing, ceramic construction, expansive explanation of all Ceramic processes and explanation of the NYSCC facilities

Presentations

2016 **Baltimore Clayworks** Baltimore, MD
Understanding Glazes

2016 **The Clay Studio** Philadelphia, PA
Glaze Flaws

2016 **National Council on Education for the Ceramic Arts** Kansas City, MO
Glossed Over: Durable Glazes (Lecture)

2012 **National Council on Education for the Ceramic Arts** Seattle, WA
Robust Mid-Temperature Glazes (Panel and Lecture)

2011 **Truro Center for the Arts, Truro MA**
Glazed Over, Glaze Calculation Seminar

2010 **Truro Center for the Arts, Truro MA**
Rumor Milling, Glaze Calculation Seminar

2010 **National Council on Education for the Ceramic Arts** Philadelphia, PA
Sexy Bodies-The Science of Great Clays (Panel and Lecture)

2007 **National Council on Education for the Ceramic Arts** Louisville, KY
Clay Selection and Performance (Panel and Lecture)

2004 **National Council on Education for the Ceramic Arts** Indianapolis, IN
New Understandings of Glaze Composition. (Lecture)
The Alchemy of Art and Science. (Panel)

2003 **American Ceramic Society** Nashville, TN
Matte Glazes and Crystallization.

2002 **American Ceramic Society** St. Louis, MO
Re-evaluation of Unity Molecular Formula Limits for Whitewares.

2001 **American Ceramic Society** Indianapolis, IN

The Unity Molecular Formula.

Publications

- 2016** Glossed Over: Durable Glazes *NCECA Journal*
- 2015** The Ceramics Monthly's Guide to Materials and Glazes (Contributor)
- 2015** Electric Kiln (Book)-Richard Burkett (Contributor)
- 2013** Cone 5-6 Glazes (Book): Materials and Recipes (Contributor)
- 2012** Technofile: Boron Ceramics Monthly, (September)
- 2012** Robust Mid-Temperature Glazes *NCECA Journal*.
- 2010** Sexy Bodies *NCECA Journal*.
- 2008** Whitewares and Materials: Observations of matte glaze formation...
- 2008** Confrontational Ceramics (Book) Editor Judith Schwartz.
- 2007** Clay Selection and Performance *NCECA Journal*.
- 2005** Composite, Boulder Daily Camera, Denver Post.
- 2004** Colorado Clay, Boulder Daily Camera, Boulder Weekly, Rocky Mountain News, Westword. (8.1.2004)
- 2004** Observations of matte glaze formation intendent of firing cycle, *Whitewares and Materials (Journal)*, Co-Author, Quinlan, Katz, Carty, Gebhart
- 2004** New Understandings of Glaze Composition, *NCECA Journal*.
- 2003** Matte Glazes and Crystallization, *Proceedings of the American Ceramic Society*.
- 2002** Re-evaluation of Unity Molecular Formula Limits for Whiteware Glazes, *Proceedings of the American Ceramic Society*.
- 2001** *The Unity Molecular Formula, Proceedings of the American Ceramic Society*.

2000 The Unity Molecular Formula Approach to Glaze Development. *Ceramic Engineering Science Proceedings* (2000) and other publications.

Exhibitions

2006	The Link Gallery	Denver, CO	"Two Man Show"
2005	UC-Boulder	Boulder, CO	"MFA Show-Composite"
2005	Dairy Center	Boulder, CO	"Grad Show"
2005	NCECA	Baltimore, MD	"Decorative Surfaces"
2005	Dairy Center	Boulder, CO	"Persistence of Memory"
2004	<i>Steamboat Springs Art Council</i>	Steamboat Springs, CO/ Denver International Airport.	"The slipcast object-international juried show."
2004	<i>BMOCA</i>	Boulder, CO.	"2004 Invitational"
2004	<i>Foothills Art Center</i>	Golden, CO.	"Colorado Clay"
		<i>Winner-Wheeler Family Award</i>	
2004	<i>Dairy Center</i>	Boulder, CO.	"Grad Show"
2004	<i>Gallery Sovereign</i>	Boulder, CO.	"Fresh Dirt"
2003	<i>Hay Gallery</i>	Portland, ME.	"Ornament and Content"
2002	<i>Art Works!</i>	New Bedford, MA.	"Spring Invitational"
2001	<i>Art Works!</i>	New Bedford, MA.	"Kites, Urns, and Propositions"
2000	<i>Art Works!</i>	New Bedford, MA.	"The Text Show"
		<i>Winner- First Prize</i>	
2000	<i>Jingdezhen Ceramic Institute</i>		Jingdezhen, China
	<i>"The Spirit of Porcelain Invitational Show"</i>		
2000	<i>Alfred University</i>	Alfred NY.	"Senior Shows"
	<i>Recipient of Divisional Honors (Ceramics)</i>		

Volunteer Work

2011-2014 Alfred, New York Alfred Montessori School
Board of Directors, Finance Committee

2012-2014

Alfred, New York

Village of Alfred Planning Board