



Discovering Dance in the STEAM Classroom: Moving Math and Surprising Science

Bios of Karl, Keith and Laurel:

Karl Schaffer is a dancer and choreographer who co-directs the Santa Cruz-based dance company MoveSpeakSpin, which has performed internationally for over thirty years. He is also a math professor at De Anza College, received a Ph.D. in mathematics from UC Santa Cruz, and his writings on dance and mathematics have been published widely. He and co-director Erik Stern are on the Kennedy Center Teaching Artist Roster, and have taught hundreds of workshops throughout the United States to teachers, students, artists, and mathematicians on how to integrate dance and mathematics in the classroom, the studio, and on stage. His recent concerts include *The Daughters of Hypatia*, on the lives, work, and struggles of women mathematicians, and *Mosaic* on culture and conflict in the Mideast. See www.mathdance.org.

A lifelong love of learning, science, and dance coalesced when **Laurel Shastri** (MS in Geology) became a teaching artist twenty-five years ago. Her creative mission to integrate dance authentically yielded a number of unique units, including 'The Scientific Dancer', 'Meaningful Movement', and 'DANCE as ACTIVism.' Her work is featured in the college text 'Creating Meaning Through Literature and the Arts,' by Claudia Cornett. Her school residencies have inspired thousands of students through the Arts Council Santa Cruz County Artist-Teacher Partnership, Montalvo Teaching Artist Program, and Tennessee Art Commission arts education programs. Her interactive workshops for educators are well received and include presentations with Monterey Bay Area Math Project STEAM conference, Marion Cilker Conference for the Arts in Education, National Association for State Arts Agencies, and Southeast Center for Education in the Arts. At Ballet Tennessee, she served twenty-five years as Associate Director, dancer, faculty, arts education coordinator, and grant writer. Prior to that she worked as project geologist and chemical technician for environmental firms at Los Alamos National Laboratory. She is currently faculty of Dancenter and performs with MoveSpeakSpin.

Keith Terry is a percussionist/rhythm-dancer/educator whose artistic vision has straddled the line between music and dance for more than four decades. As a soloist he has appeared in such settings as Lincoln Center, Bumbershoot, NPR's All Things Considered, PRI's The World, the Vienna International Dance Festival, and the Paradiso van Slag World Drum Festival in

Amsterdam. His groups – Slammin All-Body Band, Crosspulse Percussion Ensemble, Professor Terry’s Circus Band Extraordinaire, and Body Tjak (with I Wayan Dibia) – have performed in a variety of venues, including Joe’s Pub, WNYC, and Lincoln Center Out-of-Doors (NY); Grand Performances, LACMA Jazz, the Roxy, and the Skirball Center (LA); SFJazz, Vancouver Island MusicFest, and the Bali Arts Festival. In addition, Keith has performed with a wide range of artists including Charles “Honi” Coles, Jazz Tap Ensemble, Turtle Island Quartet, Jovino Santos Neto, Pickle Family Circus, Barbatuques, Gamelan Sekar Jaya, KeKeÇa, Kenny Endo, Freddie Hubbard, Tex Williams, Robin Williams, and Bobby McFerrin. As a producer he has released more than a dozen CDs, DVDs, and books on Crosspulse Media.

Keith tours extensively in the Americas, Asia, and Europe, where his Body Music performances, workshops, residencies and choreographic commissions are popular among professional performers and educators. He designs and teaches courses on the relationship of music and dance; deep listening; synchronicity, time, and timing; visual rhythm; and the role of rhythm in intercultural communication.

Keith Terry is the founding Artistic Director of the [International Body Music Festival](#) (IBMF). Launched in 2008, this annual festival explores the language of body music from culture to culture and has been produced in the US, Brazil, Turkey, Indonesia, France and Ghana. In addition IBMF MiniFests have been produced in Italy, Greece, Canada and Brazil, and an IBMF “Americas” concert was directed by Keith for the Lincoln Center Out of Doors Festival in New York. Keith is a Guggenheim Fellow and an Asian Cultural Council Fellow, as well as the Founding Director of [Crosspulse](#), an Oakland, CA –based, non-profit organization dedicated to the creation and performance of rhythm-based intercultural music and dance, celebrating its 42nd year. www.crosspulse.com

For more information visit:

www.crosspulse.com

www.InternationalBodyMusicFestival.com

Video clips:

Keith Terry solo performance

<http://www.youtube.com/watch?v=3Ysq0rh5ZaQ>

Keith Terry on Public Radio International's THE WORLD

<http://www.youtube.com/watch?v=gKzko9z8jU8>

Keith Terry's Body Music Improv with Slammin' All-Body Band

<http://www.youtube.com/watch?v=TCItR3kAYI0>

Keith Terry on NPR's Here and Now

<http://hereandnow.wbur.org/2013/11/18/keith-terry-music>

6th International Body Music Festival promo video - Oakland/San Francisco

<http://youtu.be/bl7F9gY7bKE>

7th International Body Music Festival highlights - Bali, Indonesia

<https://www.youtube.com/watch?v=v8Wke6CjJo0>

Keith Terry's BODY TJAK

<http://www.youtube.com/watch?v=kNOSo85kNTM&feature=related>

Keith Terry in Detroit Schools and his Quartet in Ann Arbor

http://www.youtube.com/watch?v=ZFxLh51_odk&feature=related

Keith Terry's Crosspulse Percussion Ensembles for Kids and their Families

<http://www.youtube.com/watch?v=R1p64cBD9f8>

WHAT IS BODY MUSIC?

Body Music, also known as Body Percussion and Body Drumming, is the oldest music on the planet. Before people were hollowing logs and slapping rocks, they were using their bodies to stomp, clap, sing, snap and grunt their musical ideas. There are many traditional Body Musics in the world, from African-American Hambone and Flamenco Palmas to Sumatran Saman and Ethiopian Armpit music. Since 1978 Keith Terry has developed a contemporary style of Body Music based on his training as a jazz drummer, as well as his years of intensive study and collaboration with world rhythmic systems.