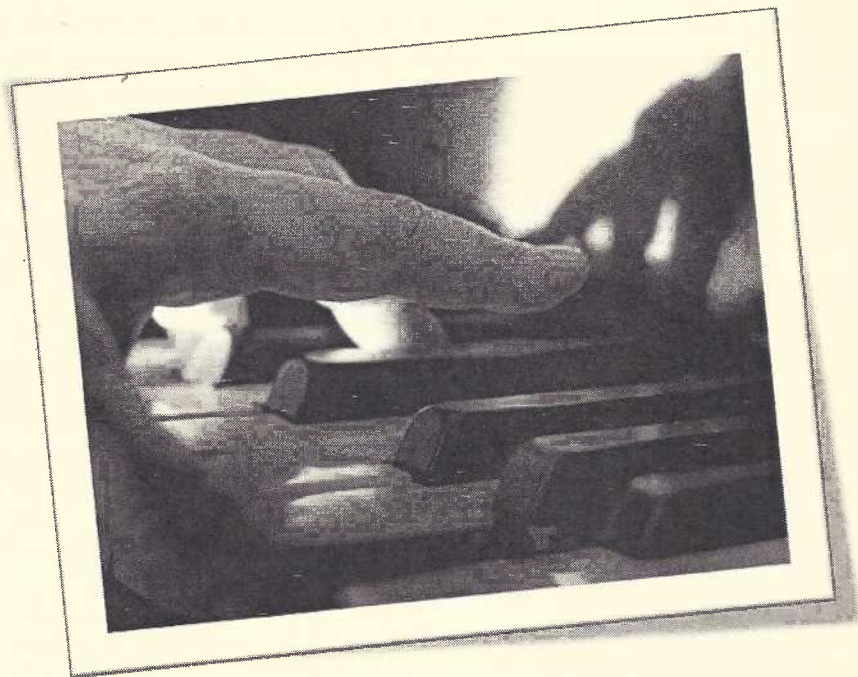




# Cadek Conservatory of Music

*Excellence in Music Instruction for 100 years*



## ***Tales of the Neural Tango!***

A Lecture & Performance Workshop to Celebrate the  
Art and Science of Music

*Featuring*

***Martha Summa-Chadwick***

***Lecturer & Pianist***

Sunday – March 22, 2015

3:00 PM

Cadek Recital Hall

## ***The Program***

Today's workshop/performance is a unique celebration of both the aesthetic and therapeutic value of music. While much is known about how music influences mankind on a hedonic level, little is generally known about how music is actually experienced in the brain and how music can be specifically directed to help actually rebuild neural networks that may be damaged due to disease or accident. Today's event seeks to bridge this gap in the form of an artistic event to raise awareness of the benefits of music in a therapeutic setting through lecture and experiential performance.

Biomedical music techniques are researched and developed at Colorado State University's (CSU) Center for Biomedical Research in Music. Unlike traditional music therapy based on social sciences, biomedical music techniques are evidence-based protocols that show how music can promote actual brain plasticity for those persons affected with motor, speech, or cognition challenges such as stroke, autism, or Parkinson's disease.

## ***The Lecturer***

Martha Summa-Chadwick has achieved an extensive reputation as educator, presenter, performer, and advocate for the cause of music in therapy. She has performed in roles of piano and harpsichord soloist with orchestras across the country and is currently on the faculty of the Cadek Conservatory of the University of TN in Chattanooga, Tennessee. She holds a Bachelor of Music degree from the Hartt School of Music, a Master of Music degree from the University of TN at Chattanooga, and a Doctorate of Musical arts degree from the University of Kansas and has completed both Basic Training and Fellowship Training at Colorado State University's Academy of Neurologic Music Therapy.

For the past decade, Martha has explored facets of how music can be utilized for therapeutic as well as aesthetic ends. She is a frequent guest speaker at both national and regional conferences discussing the use of biomedical music techniques with challenged children. Martha is currently the Executive Director of the non-profit organization, Music Therapy Gateway In Communications (MTGIC), Inc., and through the non-profit she has also established a series of both chamber and solo concerts to help educate the audience in an overview of biomedical music protocols in practice. ***For more information about these organizations, see back of program.***

# *Tales of the Neural Tango!*

Martha Summa-Chadwick, Lecturer & Pianist

March 22, 2015 – 3:00 PM

**Brief Introduction**.....“The Science of Biomedical Music”

## **Music and Cognition**

Brain Plasticity of Neural Networks Using Music and Rhythm

*Piano Sonata op. 31, no. 3 in Eb Major*     *Ludwig Van Beethoven*  
*Scherzo. Allegretto Vivace.*

How Music Can Be Utilized for Individuals with Attention Disorders

*Waldszenen, op. 82*     *Robert Schumann*  
*Herberge (Wayside Inn)*  
*Vogel als Prophet (Prophet Bird)*  
*Abschied (Farewell)*

## **Music and Speech**

Use of Music as a Therapeutic Addition to Speech Techniques

*Widmung*     *Schumann / Liszt*

## **Music and Sensory Processing**

*Le baiser de l'Enfant-Jésus (from the Vingt Regards)*

*Olivier Messiaen*

## INTERMISSION

## **Music and Motor Issues**

Music and Therapeutic Instrument Musical Performance Strategies

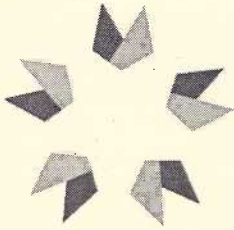
*Fantastic Dances. Op. 2*     *Loris Tjeknavorian*  
*Allegro con fuoco*  
*Danse Lyrique*  
*Danse d'extase*

Music and Gait Training

*Tango dances*     *Astor Piazzolla*  
*Contrabajeando*  
*Invierno Porteño*  
*Milonga del Ángel*  
*La Muerte del Angel*

***For More Information***

For details about MTGIC and the work Martha is doing, please visit the website [www.mtgic.org](http://www.mtgic.org) or Martha's personal website, [www.marthasumma.com](http://www.marthasumma.com). Additional information about the CSU Center for Biomedical Research in Music can be found at [cbrm.colostate.edu](http://cbrm.colostate.edu). For general information about music therapy, go to the American Music Therapy website, [www.musictherapy.org](http://www.musictherapy.org).



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