

Day 4 - Wednesday, February 13/2/2013

Session 7 Rhythm

- 9:00-10:00 **Dr. Bruno Repp:** "The Phase Correction Response in Sensorimotor Synchronization"
- 10:00-11:00 **Prof. Simba Arom:** "The Forest for the Trees: The Metric and Rhythmic Foundations of African Music"
- 11:00-11:30 Break
- 11:30-12:30 **Concert VII, Dr. Menachem Wiesenberg:**
"Mostly Rhythm"
Various pieces for jazz ensemble
O. Messiaen: Quatuor pour la fin du temps (one movement)
B. Bartók: Contrasts (last movement)
Menachem Wiesenberg, piano; Michael Milton, piano; Liad Mor, bass; Baruch Regev, percussion; Eyal Nezer, tenor saxophone; Benjamin Greiniman, alto saxophone; Jonathan Amit, soprano saxophone; Yoav Gilaad, guitar; Or Posti, clarinet; Elisabeth Cook, cello; Ido Akov, piano; Barak Shosberg, violin

12:30-3:00 Break

Session 8 Elements of Surprise

- 3:00-4:00 **Dr. Roni Granot and Prof. Talma Hendler:** "Ricerca No. 2 for Music Analysis, Music Cognition and the Brain: Lessons from Ligeti"
- 4:00-4:30 Break
- 4:30-5:30 **Prof. David Huron:** "Statistical Learning Meets Music History: Toward a Cognitive History of the Major and Minor Scales"
- 5:30-6:00 **Summary and general discussion**
- 8:00 **Final Concert, Dr. Yoel Greenberg:** "Oom-Papa Haydn and the Unbearable Lightness of Being Shostakovich"
J. Haydn: Op. 33 No. 2, Hob. III:38
D. Shostakovich: String Quartet No. 3 in F major, Op. 73
The Carmel Quartet

More information
on the conference website:

[http://elsc.huji.ac.il/content/
music-and-brains](http://elsc.huji.ac.il/content/music-and-brains)



**The Bat Sheva de Rothschild
Workshop on**

Music and Brains: The Surprising Link

An Interface Between Music,
Cognition and Neuroscience

International Conference - Lectures and Concerts

February 10-13, 2013

The Konrad Adenauer Conference Centre
Mishkenot Sha'ananim



Day 1 - Sunday, February 10/2/2013

Session 1 Expectations in Music

9:00-10:00 **Prof. Naftali Tishby:** "Predictive Information: Expectations, Surprise, and Emergence of Hierarchies in Perception and Planning"

10:00-11:00 **Prof. Carol Lynne Krumbansl:** "Tonality and Tension"

11:00-11:30 Break

11:30-12:30 **Concert I, Prof. Michael Wolpe:** "Wagner and the Twilight of Tonal Music"

G. Mahler: piano quartet.

Roni Shavit, piano; Anat Pagis, violin; Yeshayahu Ginzburg, viola; Fredi Julius, cello

R. Schumann: from Dichterliebe (H. Heine)

1. Im wunderschönen Monat Mai

2. Aus meinen Tränen sprießen

3. Die Rose, die Lilie, die Taube, die Sonne

4. Wenn ich in deine Augen seh

5. Ich will meine Seele tauchen

F. Liszt: Im Rhein im schöne strome (H. Heine)

Oshri Segev, tenor; Tania Schtshopak, piano

A. Berg: Kennst du das Land?

F. Schubert: Über Thal und Fluss

P. I. Tchaikovsky: Net, tolka tot kto znal

Shaked Bar, soprano; Zvi Zemel, piano

J. Brahms: Vergebliches ständchen

G. Faure: Sérénade Toscan

G. Donizetti: A Mezzanotte

Avigail Harel, soprano; Zvi Zemel, piano

12:30-3:00 Break

Session 2 Music and Language

3:00-4:00 **Prof. Stefan Koelsch:** "Towards a Neural Basis of Processing Musical Semantics"

4:00-5:00 **Concert II:** "22 Foundation Letters"
Victoria Hanna, vocal artist; Adi Forti, kanun

5:00-5:30 Break

5:30-6:30 **Prof. Yosef Grodzinsky:** "Neural Substrates for Linguistic and Musical Abilities: A Neurolinguist's Perspective"

Day 2 - Monday, February 11/2/2013

Session 3 Music and Cognitive Processes

9:00-10:00 **Prof. Istvan Winkler:** "Sound Processing Prerequisites of Music Perception/Communication in Young Infants"

10:00-11:00 **Prof. Merav Ahissar:** "The Impact of Musical Training on Linguistic Abilities"

11:00-11:30 Break

11:30-12:30 **Concert III, Dr. David Shemer:** "The Art of Polyphony"

J. S. Bach: 4 canons from the Goldberg Variations

3 Counterpoints from the Art of Fugue

Ricercare a 3, from the Musical Offering

Canons from the Musical Offering

Prelude and Fugue in A Minor, BWV 894

David Shemer, harpsichord

Noa Shirvan, Tehila Meller, Alma Meir-Nir, Tal Gutman, recorders

12:30-3:00 Break

Session 4 Structure in Music

3:00-4:00 **Prof. Dmitri Tymoczko:** "The Epistemology and Syntax of Classical Tonal Harmony"

4:00-5:00 **Concert IV, Dr. Ron Regev:** "The Evolution of Sonata Form: Interaction Between Tonal and Thematic Planes"

J. S. Bach: Allemande, from French Suite no. 6 in E major

D. Scarlatti: Sonata in C major, K. 159

C. P. E. Bach: Moderato from Württemberg Sonata no. 1, Wq 49

W. A. Mozart: Adagio-Allegro from String Quartet KV465 ("Dissonance")

L. V. Beethoven: Allegro from Sonata no. 5 for Piano and Violin, op. 24 ("Spring")

F. Liszt: Ballade no. 2 in B minor

Ron Regev, piano; Barak Shosberg, violin; Daniel Zin, violin; Shir-ran Ynon, viola; Edi Hausman, cello

5:00-5:30 Break

5:30-6:30 **Prof. Petr Janata:** "Relating Tonal Structure to Brain Function"

Day 3 - Tuesday, February 12/2/2013

Session 5 Music and Neurophysiology

9:00-10:00 **Prof. Alain de Cheveigne:** "Scale, Time, Memory, Modulation"

10:00-11:00 **Prof. Eli Nelken:** "The Highs and Lows of the Auditory System: Connecting Single Neurons with Music"

11:00-11:30 Break

11:30-12:30 **Concert V, Prof. Eitan Globerson:** "Our Brain as Pianist"

Etudes by Chopin (from op. 10 and 25) and Rachmaninoff (Op. 39)

Eitan Globerson, piano

12:30-3:00 Break

Session 6 Pitch Representation in Music and Brains

3:00-4:00 **Prof. Ian Quinn:** "The Miracle of Relative Pitch"

4:00-5:00 **Concert VI, Prof. Taiseer Elias:** "Arabic Music: From Tonal Structures (Maqamat) to Emotional Meaning"

Taiseer Elias, oud; Jiana Naddaf: voice; Emil Bishara: oud; Shukry Amsis: qanun; Attaf Bisharat: riq; Assad Mattar: violin

5:00-5:30 Break

5:30-6:30 **Prof. Xiaoqin Wang** (Heller Lecture): "Pitch and Harmonicity Representations in Auditory Cortex"