



INSTITUTE FOR MUSIC IN
HUMAN AND SOCIAL
DEVELOPMENT
[IMHSD]



Full Timetable

Summer Workshop on Music, Pattern and Mathematics

9th to 11th August 2010, Bader International Study Centre at Herstmonceux Castle, East Sussex, UK

MONDAY 9 th August 2010			
13.00 – 14.00	Registration		Lobby
13.15 – 13.45	Tour of Herstmonceux Castle	Diana Gilchrist	Meet in Lobby
14.00 – 14.10	Welcome	Dr. Katie Overy and Diana Gilchrist	Conference Room
14.10 – 15.00	'Musical Neurodynamics: Dynamic Patterns and the Experience of Music'	Dr. Edward Large	Conference Room
15.00 – 15.30	'Calculations and Chakkradars: Mathematics in Indian Rhythm'	Dr. Margaret Walker	Conference Room
15.30 – 16.00	'Rhythm as Social Counting'	Prof. Peter Nelson	Conference Room
16.00 – 16.30	Tea and Coffee		Breakout Room
16.30 – 17.30	'Music in Maths Education: MusiMaths'	Chris Greive	Conference Room
17.30 – 18.00	'Musomatics'	Prof. Nigel Osborne	Conference Room
18.00 – 19.00	Evening meal		Dining Room
19.00 – 20.00	Wine reception		Elizabethan Room
20.00 – 20.45	'Einstein's Fiddle'	Prof. Brian Foster	Conference Room
20.45 – 21.15	Discussion		Conference Room
21.15 – 23.30	Pub and Scratch Rehearsals		Pub or Conf. Room
TUESDAY 10 th August 2010			
8.00 – 9.30	Breakfast		Dining Room
9.30 – 10.00	'The Significance of Harmonic Frequency Ratios in Functioning Wind Instruments'	Prof. Murray Campbell	Conference Room
10.00 – 10.30	'The Music of Life: Quantum Sound and Molecular Patterns in Biology'	Michael Butler	Conference Room
10.30 – 11.00	'Blending Air-Disturbance Patterns of Reproduced Sound to Emulate the Characteristics of Natural Sound in Superior Acoustic Spaces'	Dr. Shelley Katz	Conference Room
11.00 – 11.30	Tea and Coffee		Breakout Room

11.30 – 12.00	'Analysing the Flow of Movement and Sound that Makes Music'	Prof. David N. Lee	Conference Room
12.00 – 13.00	'Touchy Feely Mathematics'	Dr. Benjamin Schögler	Conference Room
13.00 – 14.00	Lunch		Dining Room
14.00 – 14.30	'Information Dynamics in the Perception of Musical Structure'	Dr. Marcus Pearce	Conference Room
14.30 – 15.00	'Music and Brain Science'	Prof. Koki Kawamura	Conference Room
15.00 – 15.30	'Problems in Proportion – Why Conceptual Mathematical Structuring of Large-Scale Musical Form Lacks a Perceptual Counterpart'	Michelle Phillips	Conference Room
15.30 – 16.00	Tea and Coffee		Breakout Room
16.00 – 16.50	'Music Counts'	Prof. Kevin Jones	Conference Room
16.50 – 17.40	'Mathematics as the Source of Music Composition'	Prof. Clarence Barlow	Conference Room
17.40 – 18.00	Discussion		Conference Room
18.00 – 19.00	Evening meal		Dining Room
19.30 – 20.15	'From 2D to 3D: Using Mathematics to Conceptualise Musical Structure as Three-Dimensional Objects'	Jocelyn Ho	Conference Room
20.15 – 21.15	'Descending Motifs in Five Vocal Pieces from the Renaissance through to Contemporary Eras'	Diana Gilchrist and Dr. Shelley Katz	Ballroom
21.15 – 23.30	Scratch performances and ceilidh		Ballroom
WEDNESDAY 11th August 2010			
8.00 – 9.30	Breakfast		Dining Room
9.30 – 10.30	'Musical Activities in Maths Classrooms – About the Challenge of Interdisciplinary Teaching and Learning'	Prof. Markus Cslovjecsek and Prof. Dr. Helmut Linneweber-Lammerskitten	Conference Room
10.30 – 11.00	'Finding Meaning in Maths Classroom Interaction'	John Kuszniarczyk	Conference Room
11.00 – 11.30	Tea and Coffee		Breakout Room
11.30 – 12.00	'Computing Grammar-based Musical Analysis'	Prof. Mark Steedman	Conference Room
12.00 – 12.30	'Musical Analogies and Blends'	Dr. Alan Smail	Conference Room
12.30 – 13.00	'Patterns in Space and Time: Musical and Mathematical Abstraction'	Dr. Katie Overy	Conference Room
13.00 – 13.30	Closing Discussion and Proceedings		Conference Room
13.30 – 14.30	Lunch		Dining Room
14.30	Departures		