

Multidisciplinary approach to wooden musical instrument identification

Cremona, September 30 – October 1

Preliminary program

Monday 29 September

18:00-20:00: Steering committee

Tuesday September 30

9 :00	Welcome	
9 :15	Karel Moens , <i>title to be confirmed</i>	Chair person – Renato Meucci
9 :45	Bruce Carlsson <i>title to be confirmed</i>	
10 :15-10 :45	break	
10:45	Session 1 : Wood identification – Chair person E Obataya <ul style="list-style-type: none"> • C. Lavier, <i>The study of the sounding board of a Jacob Stainer's violin: what kind of contribution can we hope from a dendrometrical approach ?</i> • P Radcliff, <i>Dendrochronology, an invaluable tool in the classification of instruments of the violin family.</i> • M. Fioravanti, <i>Non-invasive approach to wood species identification in historical musical instruments.</i> • M.C. Popescu, <i>Near infrared spectroscopy and chemometric methods for wood specie identification.</i> 	
12:10-1:00	Flash talk : Poster Session – STSM reports - Chair session Anastasia Pournou	
1:00-2:30	Lunch	
2:30-4:00	Session 2: Varnish characterization – Chair person Blaz Demsar <ul style="list-style-type: none"> • F. di Girolamo, <i>A new multi-faceted analytical approach for improved characterization of varnishes in wooden musical instruments.</i> • J.-P. Echard, <i>Which method should I use to characterize varnishes on wooden instruments? Which goal am I aiming at?</i> • B. Soulier, <i>Varnishes characterization for the identification of stringed instruments? Possibilities and limits.</i> • C. M. Popescu, <i>Identification of structural differences of some natural resins used as varnishes for wooden instruments.</i> 	
4 :00-4 :30	Break	
4 :30-6 :00	Session 3 : Vibro-acoustic characterisation – Chair person M A Perez <ul style="list-style-type: none"> • J. Tro, <i>Tap the wood and define the quality; aspects of measuring techniques of sound radiation from wood and wooden instruments.</i> • J.-L. Le Carrou, <i>18th and 19th French harp classification using vibratory analysis.</i> • E. Guauss, <i>PLAYING THE UNPLAYABLE: BUILDING THE DATASET</i> • C. Fritz, <i>Why violins are not authenticated by means of playing tests.</i> 	
7 :30	Diner	

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9 :00	Concert
Wednesday October 1	
9 :00-10 :30	Session 4 : internal identification – Chair person Frank Bar <ul style="list-style-type: none"> • G. Rossi Rognoni <i>The application of x-ray ct scanner to the documentation of early musical instruments.</i> • N. Sodini, <i>Comparison of different experimental approaches in the tomographic analysis of ancient violins.</i> • R. Howe, <i>The use of micro-computed tomography to study the internal architecture of wooden musical instruments.</i> • J. Van den Bulke, <i>Multi-resolution x-ray tomography for research on wooden musical instruments.</i>
10 :30-11:00	break
11:00-11:30	E. Obataya (Japan): <i>The ageings of wood</i>
11 :30 – 1:00	Session 5: Case study – Chair person Pascale Vandervellen <ul style="list-style-type: none"> • E. Marconi, <i>An example of the traditional approach in musical instruments identification as starting point:the case of the Nonemacher's mandolin.</i> • F. Cacciatori, <i>STUDY AND CHARACTERIZATION OF ANTONIO STRADIVARI'S HANDWRITINGS</i> • P. Vandervellen, M. Frederick & L. Huart, <i>Comparative study of Ruckers instruments.</i> • J. R. Westbrook, <i>Investigative methods for the study of historical guitars:Antonio de Torres, a case study.</i> • D. Gil de Avale, <i>A missed link in the history of the Spanish guitar B. Campo Guitar 1840 and Dionisio Aguado's tripodium.</i>
1:00-1:15	Closing
1:15-3:00	lunch
3:00-5:00	MC meeting

Posters:

- D. Konopka *Numerical simulation of historical wooden music instruments under mechanical and hygrical loading*
- J. V. T. Pollki *Local traditional woods and common European luthiery woods for various kantele instruments*
- M. Odhyla *Correlation of mechanical behavior with advanced chemical analysis of varnished wood and items used in musical instruments*
- M. S. Gilani *From microstructure to micromechanics of varnished wood*
- P. Sklavos *Revisiting a unique guitar*
- P. Gjerdrum *Tones and instruments from the forest – cultural and commercial aspect from a Nordic forester's view*
- L. Tronchin *Acoustic analysis on the violin since its conception*
- Tahvanainen *Acoustical measurement of a string instrument called kantele with different string terminations*
- M. Curtitt *INNOVATION AND INSTRUMENT-MAKING: A COLLABORATIVE APPROACH BETWEEN WORKSHOPS AND RESEARCH LABORATORIES*

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- S. Zopf *THE 'AMATI INCH' -A NEW APPROACH TO THE HISTORICAL design of violin*
- Zauer *Determination of acoustic properties of electrical bass guitars:development of the neck material*
- J. A. Torres *Introducing modal analysis to luthiers through an experiment without analyzer or transducers*
- F. Piasentini *MICRO COMPUTED X-RAY TOMOGRAPHY APPLIED TO BOWED STRINGED INSTRUMENTS*
- R. Moutou Pitti *AN IDENTIFICATION TECHNIQUE FOR MECHANICAL CHARACTERISTICS OF WOOD IN ROOM TEMPERATURE*
- D. Ridley-Ellis *PotenTial for estimating the age of instruments by characterisation of wood properties VIA acoustics*
- P. Borysiuk *IDENTIFICATION ISSUES OF WOOD IN FOLK AND PROFESSIONAL MUSIC INSTRUMENTS*

STSM Reports

- D. Konopka *EXPERIMENTAL ANALYSIS AND NUMERICAL SIMULATION OF THE HYGRO-MECHANICAL BEHAVIOUR OF HISTORICAL WOODEN OBJECTS*
- M. Frederickx *Research on Ruckers keyboard instruments at Cité de la Musique Paris*
- N. Warneke *Non-destructive and multidisciplinary methods for the identification of African xylophones in Portuguese collections*
- C. Gauvin *Hygromechanical behaviour of a wooden painted artefact*
- S. Doganis *Evaluating the effect of restoration on wooden recorders by acoustic impedance*