



Monday 8		Tuesday 9		Wednesday 10		Thursday 11		Friday 12	
Wood in Structure, building and carpentry		Cabinet making and woodturning		Musical instrument making (Joint event with COST FP1302)		Wood treatments, finishing, varnishes and lacquer		Technical visit	
Registration and coffee		Registration and coffee		Registration and coffee		Registration and coffee			
Welcoming speech				Introduction & Welcome COST					
Introduction		Introduction				Introduction			
Session 1	KeyNote 1	Session 1	KeyNote 1	Session 1	KeyNote 1	Session 1	KeyNote 1	Visit of the historical Center of Montpellier	
	Regular talks (x3)		Regular talks (x3)		Regular talks (x2)		Regular talks (x3)		
	FlashTalks (x1)		FlashTalks (x4)		FlashTalk (x4)		FlashTalk (x2)		
Coffee break & Poster Session		Coffee break & Poster Session		Coffee break & Poster Session		Coffee break & Poster Session			
Session 2	KeyNote 2	Session 2	KeyNote 2	Session 2	Long talk	Session 2	Long talk		
	Regular talks (x3)		Regular talks (x3)		Regular talks (x4)		Regular talk (x1)		
			Workshop session I						
Lunch time		Lunch time		Lunch time		Lunch time		Lunch time	
Long talk		Long talk		Workshop session I		Workshop session II		Visits of wood workshop in Montpellier	
Workshop session I		Workshop session I		Coffee break		Round table and conclusion			
Coffee break		Coffee break		Workshop session II					
Workshop session II		Workshop session II		Session 3	Regular talks (x3)	Laboratory visits			
Round tables		Round tables			Round tables				
				Gala dinner + Concert		Musical event			

## MONDAY 8<sup>th</sup> of September

### - WOOD IN STRUCTURE, BUILDING AND CARPENTRY -

07:45 08:45	Welcome and coffee		
08:45 09:00	Welcoming speech from the official institutions		
09:00 09:20	Introduction speech (English, Japanese, French)		
09:20 10:05	KeyNote 1	François Calame	Pre Industrial Timber Framing
10:05 10:20	Regular talk 1	Sebastian Nemestothy & al.	Analyzing an austrian Farm house – dating, wood species and wood quality
10:20 10:35	Regular talk 2	Clémence Ogéron & al.	Local knowledge about uses and technological properties of construction timber of Bas-Oyapock (French Guiana)
10:35 10:50	Regular talk 3	Lisa Shindo & al.	Dendrochrono-ecological and archaeological study of traditional buildings in the southern French alps
10:50 10:55	FlashTalks	Catherine Lavier (1)	
10:55 11:30	Coffee break & Poster Session & Photography exhibition (2)		
11:30 12:15	KeyNote 2	Hiroyuki Yamamoto	Internal stress and dimensional instability of wood - a scientist's view
12:15 12:30	Regular talk 4	Cédric Montéro	Wood hygromechanics for structural timber building longevity
12:30 12:45	Regular talk 5	Mariko Yamasaki & al.	Mechanical condition of wood member in the Japanese traditional building
12:45 13:00	Regular talk 6	Gerold Esser & al.	The historic roof structures of the vienna hofburg. An innovative interdisciplinary approach between architecture and structural engineering sciences
13:00 14:30	Lunch time		
14:30 15:15	Long talk	Mathieu Peeters	Japanese Roof Geometry
15:15 15:45	Workshop I (3)	(Group1): Masaki Tatenaka	(Group2): Florian Carpentier
15:45 16:15		(Group1): Florian Carpentier	(Group2): Masaki Tatenaka
16:15 16:45	Coffee break		
16:45 17:45	Workshop II (3)	Benoît Dubost ; Florian Carpentier ; Masaki Tatenaka	
17:45 18:30	Round tables and discussions		

(1) Poster:

- Jean-S. Cluzel & Catherine Lavier: Akhan project: Albert Kahn, Archaeology of a Nippon heritage

(2) Photography exhibition:

A selection of photography will be exposed. They have been taken by Jeremy Brodbeck (French carpenter) about the partial reconstruction of a part of the roof at the Château de Gaillon (realized by the group « charpentiers sans frontières » initiated by François Calame).

(3): Workshop session I and II:

- **Florian Carpentier**, French carpenter: **(Group1)** Dismantling, restoration, reassembly of a timbered sheepfold of the 18th century, from the baie de Somme (France) ; **(Group2)** Restoration of the frontage of a timbered manor from the 16th century, in Hebécourt (France).
- **Masaki Tatenaka**, Japanese carpenter **(Group1 and 2)**, title: Japanese carpentry and Sukiya-Tea House - Assembly of round wood
- **Benoît Dubost** (French carpenter) and **Florian Carpentier**, title: Demonstration of traditional beam squaring

## **TUESDAY 9<sup>th</sup> of September**

### **- CABINET MAKING AND WOODTURNING -**

08:00 09:00	Welcome and coffee		
09:00 09:15	Introduction speech (English, Japanese, French)		
09:15 10:00	KeyNote 1	Mechtild Mertz	The wood species in Japanese craft and carpentry
10:00 10:15	Regular talk 1	Naoko Matsuyama	Safeguarding traditional craftsmanship as intangible heritage of Japan
10:15 10:30	Regular talk 2	Catherine Lavier & al.	Archeodendrometrical approaches of a Shinto-Buddhist sulpture
10:30 10:45	Regular talk 3	Magali Toriti & al.	The condition of wood worked of antiquity: archeological, entomological and anthropological approches
10:45 11:05	FlashTalks	Friederike Saxe (1) ; Nills Horbelt (1) ; Siham Amirou (1) ; Nima Saedlou (1)	
11:05 11:35	Coffee break & Poster Session		
11:35 12:20	KeyNote 2	Patrick Perré	Wood drying fundamentals and trade-offs
12:20 12:35	Regular talk 4	Aoi Hirano & al.	Development of flexible wooden composite using compressed wood
12:35 12:50	Regular talk 5	Misao Yokoyama	(How to evaluate Japanese traditional wisdom in wood working)
12:50 14:25	Lunch time		
14:25 15:10	Long talk	Alain Mailland	Artistic woodturning/sculpture from Mediterranean green wood
15:10 15:40	Workshop I (2)	(Group1): Kenichiro Yano - (Group2) Sara Robinson - (Group2): Bernard Azema	
15:40 16:10	Workshop I (2)	(Group1): Hiroyuki Ayabe - (Group2): Kenichiro Yano - (Group3): Ryosaku Takeda	
16:10 16:45	Coffee break		
16:45 17:15	Workshop II (2)	(Group1): Bernard Azema - (Group2): Hiroyuki Ayabe - (Group3): Kenhichiro Yano	
17:15 17:45	Workshop II (2)	(Group1 & 2): Ryosaku Takeda - (Group3): Sara Robinson	
17:45 18:30	Round tables and discussions		

(1) Poster:

- **Friederike Saxe** & al.: Mining historical literature, objects and practices
- **Nils Horbelt** & al.: The combined influence of varying microfibril angle and moisture content on the tensile stiffness of single spruce fibres
- **Siham Amirou** & al.: Bio-particleboards from date palm trunk

- **Nima Saedlou:** Use and woodcraft in the iron age time through an unusual corpus of Trégueux (Côte d'Armor)

(2): Workshop session I & II:

- **Ryosaku Takeda** (Japanese Professor of fine cabinet making), title: « wood in Japanese Folk Art »
- **Yano KenIchiro** (Japanese Professor and restorer of Japanese sculpture), title: « Demonstration of Camelia flower made by sculpting and plane shavings »
- **Hiroyuki Ayabe** (expert Japanese woodturner), title: « Exhibition of wood blanks and turned pieces, and discussion of the place of wood figures in Japanese esthetics »
- **Sara Robinson** (American Assistant Professor in Anatomy of renewable materials, expert on woodturning and spalted wood), title: « Demonstration/exhibition of woodturning using spalted wood »
- **Bernard Azema** (French carpentry/joinery teacher and passionate for woodturning), title: « Woodturning of very fine imbricated pieces called slender turning (or trembler) »

## WEDNESDAY 10<sup>th</sup> of September

### - MUSICAL INSTRUMENTS MAKING -

Joint event with focused meeting of COST action FP1302 WoodMusICK (<http://woodmusick.org/>)

08:00 08:45	Welcome and coffee		
08:45 08:55	Introduction speech (English, Japanese, French)		
08:55 09:00	Welcome and introduction speech for COST WoodMusICK by Sandie Le Conte		
09:00 09:40	KeyNote 1	David Van Edwards	The Wooden Economy - Logistics solutions for Lutemakers
09:40 10:20	KeyNote 2	Kiyoko Motegi	The "sound of wood" in Japanese traditional music instruments and soundscape
10:20 10:35	Regular talk 1	Nelly Poidevin	Wood diversity in bow making
10:35 10:50	Regular talk 2	Aida Se Golpaygani & al.	Traditional grading and treatment for Juglans regia and Morus alba used in Iranian musical instruments
10:50 11:05	FlashTalks	Connor Kemp (1) ; Capucine Carlier (1) ; Ferina Saati Khosroshahi (1)	
11:05 11:35	Coffee break & Poster Session		
11:35 12:05	Long talk	Iris Brémaud	Wood mechanics viewpoint on biological and cultural diversity of instrument making woods
12:05 12:20	Regular talk 3	David Hunt	Slow changes in wood properties with time, stress and environment
12:20 12:35	Regular talk 4	Sandie Le Conte & al.	Influence of wood porosity on wind instruments
12:35 12:50	Regular talk 5	Arthur Paté & al.	The wood of the Electric guitar: A mechanical and perceptual description
12:50 13:05	Regular talk 6	Alès Straze & al.	Assessment of moisture-dependent vibrational properties of rosewood
13:05 14:30	Lunch time		
14:30 15:00	Workshop I (2)	(Group1): Ishida - (Group2): Gil de Avalor - (Group3): Salenson	
15:00 15:30	Workshop I (2)	(Group1): Zare Mohazabiyeh - (Group2): Michaud - (Group3): Poidevin	
15:30 16:00	Coffee break		
16:00 16:30	Workshop II (2)	(Group1): Poidevin - (Group2): Ishida - (Group3): Gil de Avalor	
16:30 17:00	Workshop II (2)	(Group1): Michaud - (Group2): Salenson - (Group3): Zare Mohazabiyeh	
17:00 17:15	Regular talk 7	Marco Fioravanti	Technological analysis of early wooden musical instruments: a contribute to the definition of traditional knowledge systems

17:15 17:25	Regular talk 9	Naoko Matsuyama	Introduction on Japanese system of ICH (Intangible Cultural Heritage)
17:25 18:30	Round tables and discussions		
19:00 00:45	<i>Gala dinner (FULL) + concert of Tornamai (3)</i>		

(1) Poster:

- **Connor Kemp & al.:** Observing stiffness variability in reed cane (*Arundo donax*) and the resulting vibrational response using finite element modeling
- **Capucine Carlier & al.,** title: « Characteristics of "resonance wood" as viewed by violin makers or by wood scientists »
- **Ferina Saati Khosroshahi & al.:** Modal Analysis of the Tar Resonance Box Using Finite Element Method

(2): Workshop session I & II

- **Daniel Gil de Avelle** (Spanish master guitarmaker), documentary movie on: Granada guitar-making as intangible heritage: the traditional school of Granada guitar-makers and characteristics as a school, construction process and most traditionally and commonly used wood by guitar-makers of Granada.
- **Bruno Salenson** (French maker of traditional and early music oboes), demonstration/talk of: Traditional and early music oboes: design and making process of double reeds and of the bore.
- **Samad Zare Mohazabiyeh** (Iranian lutes Tar and Setar maker), demonstration and exhibition of: Wood and making techniques of Persian lutes Tar and Setar
- **Katsuyoshi Ishida** (Japanese Professor, maker of Japanese lutes), exhibition/talk of: Wood choice and making techniques of Japanese lute Biwa for different musical repertoires: Satsuma Biwa, Gagaku Biwa and Shikuzen Biwa
- **Nelly Poidevin** (French bow-maker), exhibition on: Diversity of woods and measuring techniques in bow making.
- **Bernard Michaud** (French sawyer specialized in wood for musical instrument), exhibition/talk on: Seeing the trees, ... for the wood.

(3): Gala dinner + concert of Tornamai

The Gala dinner is FULL but it is still possible to come from 22h to the concert of Tornamai for 10€/participant.

## THURSDAY 11<sup>th</sup> of September

### - WOOD TREATMENTS, FINISHING, VARNISHES AND LACQUER -

08:00 09:00	Welcome and coffee		
09:00 09:15	Introduction speech (English, Japanese, French)		
09:15 10:00	KeyNote 1	Eiichi Obataya	Effects of aging and of applied treatments or varnishes on the physical and acoustical properties of wood
10:00 10:15	Regular talk 1	Daniela Tesarova & al.	Influence of classic finished surfaces of massive wood on indoor environment
10:15 10:30	Regular talk 2	Miyuki Matsuo	Natural and accelerated aging of zelkova (Zelkova serrata Makino) wood
10:30 10:45	Regular talk 3	Delphine Jullien & al.	Hygro-mechanical behaviour of wooden panels from cultural heritage: effect of a coated face
10:45 11:00	FlashTalks	Jean Gérard (1) ; Martin Kovarik (1)	
11:00 11:25	Coffee break & Poster Session		
11:25 11:55	Long talk	Joseph Gril	The shape memory of wood: thermal softening and heat bending
11:55 12:10	Regular talk 4	Sara Robinson	Modern Spalting
12:10 12:40	Workshop I (2)	(Group1): François Perego - (Group2): Ryosaku Takeda	
12:40 13:10	Workshop I (2)	(Group1): Nicolas Gilles - (Group2): Bernadette Bakes	
13:10 14:30	Lunch time		
14:30 15:00	Workshop II (2)	(Group1): Ryosaku Takeda - (Group2): Nicolas Gilles	
15:00 15:30	Workshop II (2)	(Group1): Bernadette Bakes - (Group2): François Perego	
15:30 16:30	Round tables and conclusion of the symposium		
16:30 18:30	Beginning of laboratory visits in 2 groups: LMGC and CIRAD (3)		
19:00 23:00	Musical event in the historical centre of Montpellier (4) - FULL -		

(1) Poster:

- **Jean Gérard** & Catherine Gérard: Wood finishes used by traditional societies in Africa and oceania, and by European period furnishings restorers
- **Martin Kovarik** & al.: Anthropometric research of the adult population and its applications in architecture, interiors and furniture



(2): Workshop session I & II:

- **Ryosaku Takeda** (Japanese Professor of fine cabinet making) and **Yuki Ayabe** (expert Japanese woodturner), exhibition and potentially demonstration on: « The use of traditional Japanese coating: Urushi »
- **François Perego** (French restorer of painting and teacher on varnishes), talk/exhibition on: « Diversity in varnishes recipes and botanical origin of ingredients »
- **Bernadette Backes** (French cabinet maker, specialist in european traditional varnish), exhibition and potentially demonstration on: « The traditional technique of French Polish in cabinet making »
- **Nicolas Gilles** (French violin maker), exhibition and potentially demonstration on: « The multiple steps of wood finishing, varnishing and patina in violin making »

(3) Visits of wood laboratory (audience divided in 2 groups):

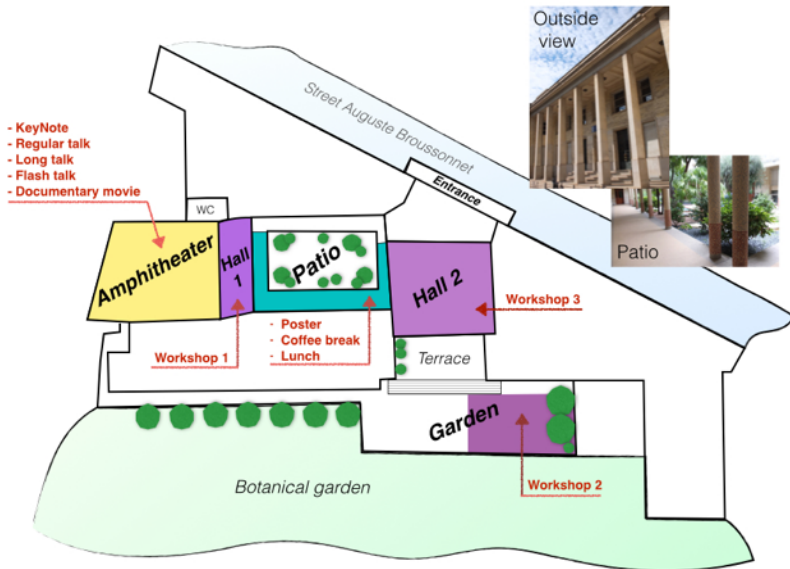
For those who are interested we propose to visits the Xylarium and sawmill of CIRAD (Tropical woods) and the Wood team of the LMGC (experimental rooms).

(4): Musical event: FULL

# MAP OF THE BOTANICAL INSTITUTE

163 Rue Auguste Broussonnet

34090 Montpellier



## Definition of the contribution:

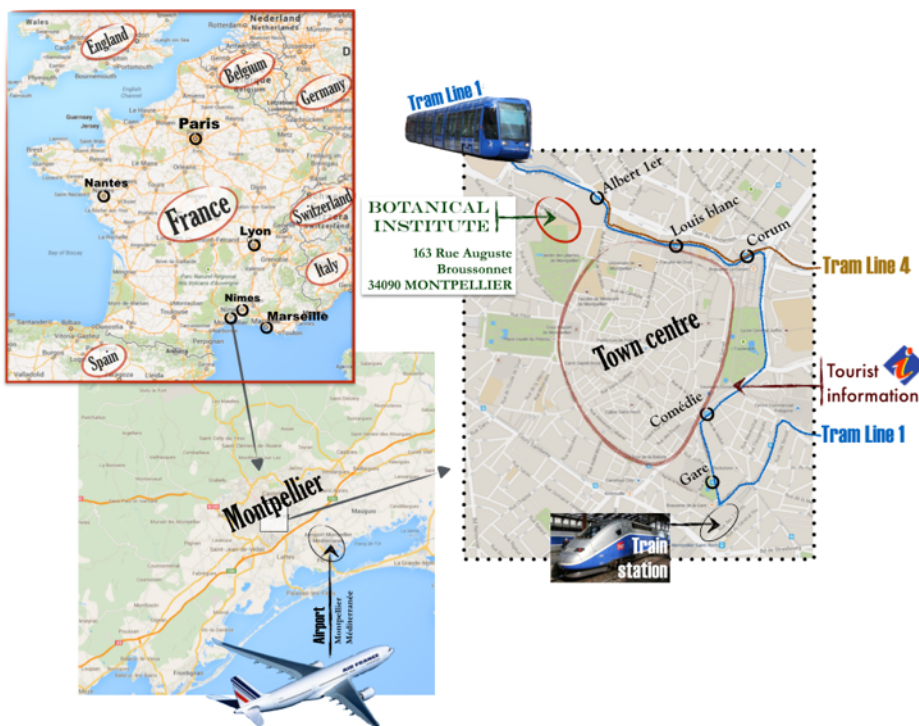
- KeyNote lecture: Long talk of syntheses on a subject of wide interest in the amphitheater (whole audience) => 30 minutes talk + 15 minutes of questions/discussions (only 10 minutes of questions for Wednesday 10<sup>th</sup>)
- Regular talk: Classical conference in the amphitheater on a specific subject (whole audience) => 12 minutes talk + 3 minutes of questions/discussions
- Flash talk: Short conference to introduce a Poster (whole audience) => 5 minutes
- Long talk: Long conference in the amphitheater on a wide subject (whole audience) => 45 minutes. Note that in some cases the duration is adapted.
- Workshop sessions: Slots of 1 hour (2 times 30 minutes) where craftsmen present they work with an open format (demonstrations, exhibitions, projected presentation, etc.). In these slots the audience will be divided in groups in order to create closer exchanges.

# WoodSciCraft symposium venue

*The symposium will be held at the botanical institute in the historical center of Montpellier.*

## Coming to Montpellier:

- By road, using highway A9, Montpellier is roughly 700 km far from Paris. Highway exit “Montpellier Est” is at 15mn from city center.
- By train SNCF station is located in city center, 6 daily TGV (High speed train) connect Paris and Montpellier in 3h 45mn.
- By plane the international airport Montpellier Méditerranée is situated at 10 km from city center. 11 daily flights are available for Paris Charles de Gaulle and Orly Ouest (in 1h 10). Direct links are also available for Ajaccio, Bastia, Bordeaux, Lille, Lyon, Nantes, Nice, Perpignan, Strasbourg, etc. From the Airport you may use a bus shuttle (9 daily services, departure after every arrival of flights coming from Paris, cost 5 euros). 15 mn you will be in center town near the railway station.



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