Saturday, May 20

	Session 5 Amphi E01	
09:30	Heterogeneous data orchestration - Interactive fantasia under SuperCollider *Sebastien Clara*	
10:15	Higher Order Ambisonics for SuperCollider *Florian Grond, Pierre Lecomte*	
11:00	Coffee break - Hall Mrash	
11:30	STatic (LLVM) Object Analysis Tool: Stoat *Mark McCurry*	
12:15	AVE Absurdum *Winfried Ritsch*	
13:00	Lunch	

	Session 6 Amphi E01	Workshop Session 5 Room E12
15:00	Multi-user posture and gesture classification for "subject-in-the-loop" applications *Giso Grimm, Joanna Luberadzka, Volker Hohmann*	9. Smartphone Passive Augmentation Workshop
15:45	VoiceOfFaust *Bart Brouns*	
16:30	Coffee break - Hall Mrash	
17:00	Polyphony, sample-accurate control and MIDI support for FAUST DSP using combinable architecture files *Stéphane Letz, Yann Orlarey, Dominique Fober, Romain Michon*	*John Granzow, Romain Michon*
17:45	Meet the Cat: Pd-L2Ork and its New Cross-Platform Version "Purr Data" *Ivica Bukvic, Albert Graef, Jonathan Wilkes*	
18:30	Dinner	

	CONCERT 3 - Acousmatic Music L'Estancot
20:30	1. *Voce 3316* (3' - stereo) Massimo Fragalà, Italy
	2. *Kecapi III* (10'56 – octophony) Patrick Hartono, Indonesia
	3. *Inuti* (9' - 16 channels) Helene Hedsund, United Kingdom
	4. *Profon* (7' – 16 channels). Magnus Johansson, Sweden
	5. *Dark Path #6* (5' – stereo) Anna Terzaroli, Italy
	6. *Kruchtkammer* (6' – quadriphony) Lukas Tobiassen, German
	7. *Definierte Lastbedingung* (11'40 – octophony ambisonic) Clemens Von Reusner, Germany
	8. *Suite de miniatures* (10' - stereo) Bernard Bretonneau, France
	9. *Concret X* (5' – ambisoniX) Jean-Marc Duchenne, France

Sunday, May 21

	Social Events
07:30	Trail to "Barrage du Gouffre d'Enfer"
12:30	Lunch
14:30	Guided Tour of the Musée d'Art Moderne and Musée d'Arts et d'Industrie

LINUX AUDIO CONFERENCE 2017
May 18 – 21, 2017
Jean MONNET University, Saint-Etienne – France

PROGRAM

Access to conferences and concerts is free for the public

https://lac2017.univ-st-etienne.fr/
Location: Amphi E01 - Site Tréfilerie
35 rue du 11 novembre – 42023 Saint-Etienne – France

Secretary-information: Nadine Lair (CIEREC): +33(0)4 77 42 16 61

Thursday, May 18

09:30 Welcome / Registration

Session 1 Amphi E01	Multimedia installations can be visited throughout the duration of the conference

10:00 Introduction

10:15 OpenAV Ctrla: A Library for Tight Integration of Controllers
Harry Van Haaren

1. Ouppo
Louise Harris - United Kingdom

2. Sonic Current
Giannoutakis Kosmas - Austria

11:15	Coffee break - Hall Mrash

3. Theta Fantomes
Apo33 Collective - France

Special Guest 1 Amphi E01

11:30 Why could the open source software change the way of writing for contemporary creation?
Thierry Coduys

4. Zic Street Box
Lionel Rascle - Conservatoire de Musique de St-Chamond – France

5. Sound Sculptures
Thomas Barbe – ESADSE - France

12:30	Lunch

Session 2 Amphi E01	Workshop Session 1 Room E11B	Workshop Session 1 Room E12

14:30 Binaural Floss - " Exploring Media, Immersion, Technology
Martin Rumori

1. Yoshimi

2. Building a local linux audio community

15:15 A versatile workstation for the diffusion, mixing and post-production of spatial audio
Thibaut Carpentier

Will J. Godfrey / Daniel Appelt

16:00	Coffee break - Hall Mrash	Workshop Session 1 Room E11B	Workshop Session 1 Room E12

16:30 Teaching Sound Synthesis in C/C++ on the Raspberry PI
Henrik Von Coler, David Runge

3. Release Roadmap for the MOD DUO

4. Too Much Qstuff* To Handle

17:15 Open Signal Processing Software Platform for Hearing Aid Research (openMHA)
Tobias Herzke, Hendrik Kayser, Frasher Loshaj, Giso Grimm, Volker Hohmann

Mauricio Dwek, G. Ceccolini, Filipe Coelho / Rui Nuno Capela

18:00	Coffee break

CONCERT 1 - Mixed Music - Auditorium - Maison de l'université

18:30 **1. SmartMachine musicale** (20' – 2017 - Création)
Students of La Salle secondary school (Saint-Etienne), Robert Chauchat, music teacher, Roméo Monteiro, percussionist, solist from Ensemble Orchestral Contemporain and Gérard Authelain, teacher and musician (GRAME)

2. Smartbones (20' - 2016)
Brass section students of the Conservatory of Valence (Léane Berthaud, Alice Chakroun, Noam Leenhardt, Rami Leenhardt, Meryem Ouannas, Antonin Vinay) and Pierry Bassery, musician and teacher

3. Peyote (16' - 2016) mixed music for trio & electronics
Composer: Sébastien Clara / Alice Szymanski, flute, Justine Eckhaut, piano, Florent Coutanson, saxophones

4. PS#01 (2' - 2016) for flute and STONE
Composer: Citera Pasquale

5. Appunti sul Marmo (6') for soprano saxophone and 4 STONE
Composer: Martino Marco

6. PHASOR (2016) for Alto Sax and 2 STONE
Composer: Silvi Giuseppe

Friday, May 19

Session 3 Amphi E01	

09:30 Towards dynamic and animated music notation using INScore
Dominique Fober, Yann Orlarey, Stéphane Letz

Presentation of *Theta Fantomes* by Apo33 Collective

10:15 PlayGuru, a music tutor
Marc Groenewegen

11:00	Coffee break - Hall Mrash

Special Guest 2 Amphi E01

11:30 20 years of Open Source Audio: Success, Failure and The In-Between
Paul Davis

12:30	Lunch

Session 4 Amphi E01	Workshop Session 3 Room E11B	Workshop Session 3 Room E12

14:00 Faust audio DSP language for JUCE
Adrien Albouy, Stéphane Letz

5. Free Software and DIY at Radio Panik

6. Interactive music with i-score

14:45 On the Development of C++ Instruments
Victor Lazzarini

Arthur Lacomme, Frederic Peters & Suzie Suptille / Jean-Michaël Celerier

15:30	Coffee break - Hall Mrash	Workshop Session 4 Room E11B	Workshop Session 4 Room E12

16:00 faust2api: a Comprehensive API Generator for Android and iOS
Romain Michon, Julius Smith, Stéphane Letz, Chris Chafe, Yann Orlarey

7. Moony – rapid prototyping of LV2 (MIDI) event filters in Lua

8. Generative Music with Recurrent Neural Networks

16:45 New Signal Processing Libraries for Faust
Romain Michon, Julius Smith, Yann Orlarey

Hanspeter Portner / Kosmas Giannoutakis

17:30	Speed Geeking – Posters - Amphi E01

Porting WDL-OL to LADSPA (speed-geeking)
Jean-Jacques Girardot

Impulse-Response- and CAD-Model-Based Physical Modeling in Faust (poster)
Pierre-Amaury Grumiaux, Romain Michon, Emilio Gallego Arias, Pierre Jouvelot

Fundamental Frequency Estimation for Non-Interactive Audio-Visual Simulations (poster)
Rahul Agnihotri, Romain Michon, Timothy O'Brien

18:30	Dinner

CONCERT 2 - Electronic Music Auditorium - Maison de l'université

20:30 **1. Pointillism** (20' – 2016) solo live-coding performance in Pd
IOhannes m zmölnig (Institute of Electronic Music & Acoustics Univ. of Music and Performing Arts – Graz - Austria)

2. Seven Sphere Journey (12' - 2016) for computer generated sound, voice, dance and video projection
Broch Vilbjorg (Anti-Delusion Mechanism - Netherlands)

3. 1)3V1532 (25' - 2012), drone / noise / experimental soundscaping
David Runge (Elektronic Studio, TU Berlin & c-base - Germany)

4. 5-HT_five levels to zero (28' – 2016) for Linux computer with Pure Data, synthesizer, div pedals and instruments for noise
Tina Mariane Krogh Madsen & Malte Steiner (Block4 - Germany)

5. Level 5 Alert (30' - 2016) Live performance
Frederic Peters, Arthur Lacomme and Suzie Suptille (Radio Panik - Belgium)

6. The Infinite Repeat (22') for guitar, computer and voice
Jeremy Jongepier (linuxaudio.org – USA & MOD Devices - Germany)

Linux Audio Conference 2017

Conférences - Ateliers - Concerts - Installations

18 - 21 mai 2017
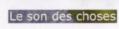## Université de Saint-Etienne

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UNIVERSITÉ JEAN MONNET SAINT-ÉTIENNE — CIEREC

CENTRE NATIONAL DE CRÉATION MUSICALE

UNIVERSITÉ JEAN MONNET SAINT-ÉTIENNE — CIEREC - EA 3068

FACULTÉ ARTS LETTRES LANGUES

GRAME

Ecole supérieure d'art et de design Saint-Etienne

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Le son des choses

iram

ANR

Concert 1: Mixed Music

Thursday, May 18 – 06:30pm – 08:00pm

Auditorium de la Maison de l'Université

10 rue Tréfilerie – Saint-Etienne

Concert 1: Mixed Music

It is a first concert featuring works of mixed music (music with acoustic instruments and electronic devices that interacts). These works are pieces whose electronic devices have been developed with real-time free software (FAUST and SuperCollider). They are played by regional musicians and students from Saint-Etienne.

1. *SmartMachine musicale* (20' – 2017 - Creation)

With the students of La Salle secondary school (Saint-Etienne), Robert Chauchat, music teacher, Roméo Monteiro, percussionist, solist from Ensemble Orchestral Contemporain and Gérard Authelain, teacher and musician (GRAME) :

Guided by their teacher and musicians, the students have explored the relationship between the technical object and the musical creation, but also the musical gesture (using the Smartfaust apps for smartphone designed by GRAME, National Center of Music Creation in Lyon). They have gradually created a new kind of sound scene, halfway between a performance and a visual installation. They invite you tonight to discover a space of research, questioning the aesthetic of the concert, the musician's attitude and his instrument!

Project conducted by a partnership between GRAME and Ensemble Orchestral Contemporain, with the support from DRAC Auvergne – Rhônes-Alpes and the Department of Loire.

2. *Smartbones* (20' - 2016)

With brass section students of the Conservatory of Valence (Léane Berthaud, Alice Chakroun, Noam Leenhardt, Rami Leenhardt, Meryem Ouannas, Antonin Vinay) and Pierry Bassery, musician and teacher:

In order to arouse the curiosity and the listening, the students of the conservatory of Valence, guided by the trombonist Pierre Bassery, combine repertoire, improvisation, creation and new technologies with pieces for trombone/tuba. The incorporation of smartphones on the instruments allows the musicians to play with Smartfaust apps as the continuation of the instrumental gesture. Thus these new instruments ("Smartbones"- smartphones & trombones) will generate a sound material that will lead the students to imagine choreographies in which dance, trombone and electro will be mixed and confronted.

3. *Peyote* (16' - 2016) by Sébastien Clara, mixed music for trio & electronics

With Alice Szymanski, flute, Justine Eckhaut, piano et Florent Coutanson, saxophones.

In 1936 Antonin Artaud left Europe to travel to Mexico. This departure symbolizes his break with surrealist aesthetics. "The rationalist culture of Europe has gone bankrupt and I have come to the land of Mexico to seek the bases of a magical culture that can still spring from the forces of Indian soil." However, by a romantic desire to touch the bottom or a personal inner experience to better understand his fellows, Artaud undertakes "a descent to come out of the day", a journey within his journey, a transcendental abysm. Artaud sets out to research "the ancient solar culture". To do this, he wants to be introduced to the culture of the men and women of the Sierra Tarahumara.

Peyote retraces the dances of the Tarahumara to the glory of the sun, which undeniably influenced the work of Antonin Artaud.

4. *PS # 01* (2'- 2015) by Citera Pasquale for flute and STONE

Elena D'Alò, flute.

Song#01 was one of the first musical attempt to compose a piece specifically for S.T.One (Spherical Tetrahedral sound diffusion) The composition ideally develops its path from the end point of *Sequenza I* for flute by Luciano Berio, a search of polyphony with the most monodic instrument of history, as the composer said. Starting from this last point, in *Song#01* it has developed an instrumental path going in the polyphonic attitude of flute, deeply; first, the overlapping of musician singing and normal sound, then continuously changing the role of one in the other and finally solidifying everything in complex layers of multiphonic gestures. The sound paths of the flute are a direct derivation of the electronic part of S.T.One, obtained subtracting some melodic and harmonic areas from the spectrum. Then, these areas are developed and read from the instrumental point of view. The whole electronic part is exclusively composed of sound engineer Piero Schiavoni's processed voice.

5. *Appunti sul Marmo* (6') by Martino Marco for Sop Sax and 4 STONE

Danilo Perticaro, saxophone.

Appunti sul marmo is a piece for sax soprano and live electronics. This piece uses four thetraedric loudspeakers, S.T.ONE, built by Giuseppe Silvi. The loudspeakers allow a tridimensional pre-recorded environment, and architectural acoustic.

6. *PHASOR* (2016) by Silvi Giuseppe for Alto Sax and 2 STONE

Danilo Perticaro, saxophone.

PHASOR is a work for alto saxophone and electronics. The electronic sound comes from two S.T.ONE (Spherical Tetrahedral ONE) systems. S.T.ONE is a tetrahedral louspeaker with one transducer on each face