

## VRIPHYS 2017

We are pleased to announce the **13th Workshop on Virtual Reality Interaction and Physical Simulation VRIPHYS 2017**. The workshop is hosted by LIRIS and the Université Lyon 1 and will take place on **April. 23-24, 2017**. It is organized in cooperation with Eurographics and will be co-located with EG2017.

The goal of the workshop is to attract **high-quality research papers in the domains of dynamic simulation and physical interaction in virtual reality environments**. We also welcome papers showing on-going research with promising results and new technology with applications of related focus.

## LYON

Lyon is the second largest city in France, located between Paris and Marseille. The city is known for its **historical and architectural landmarks** and is a UNESCO World Heritage Site. Lyon was historically known as an important **area for the production and weaving of silk** and in modern times has developed a reputation as the capital of gastronomy in France. It has a significant role in the history of cinema due to Auguste and Louis Lumière.

## GALA DINNER

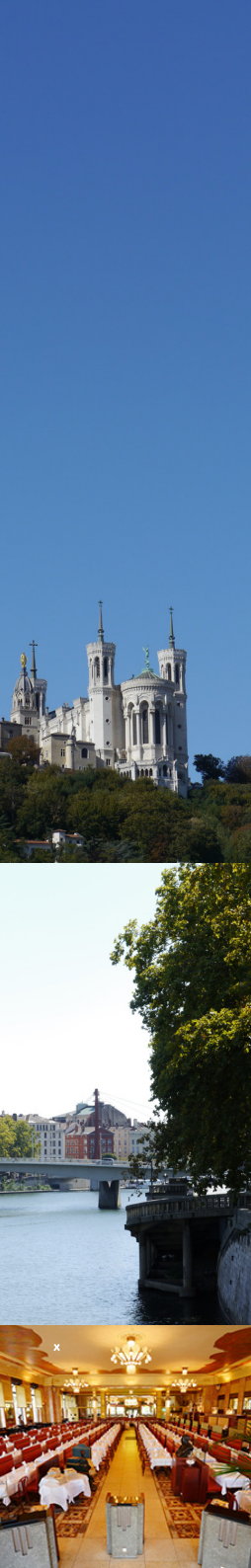
Will be held at **Brasserie Georges** on Sunday.

**The address** : 30, Cours de Verdun, Lyon 2<sup>nd</sup> (Perrache station, subway A).

**From the campus**, you have to take the tramway T1 (Debourg) or T4 (Hôpital Feyzin Vénissieux) and stop at Charpennes-Charles Hernu, station. Then take the subway A (Perrache) and stop at Perrache station.

## Brasserie Georges

Brasserie Georges is an authentic and historical place in Lyon's gastronomy. The wealth of the decoration, the majestic architecture, the warm service and the cuisine has made it its fame.



*13<sup>th</sup> Workshop  
on Virtual Reality Interaction  
and Physical Simulation*

# VRIPHYS 2017

**April 23-24, 2017**

Université Lyon 1 - LIRIS - Lyon, France

# SUNDAY

TIME	EVENT
8:30 - 9:30 am	Registration & Coffee
9:30 - 9:35 am	Opening & welcome (Room C17) - F. Jaillet
9:35 - 10:30 am	<b>Technical Session 1. Chairman: Matthias Teschner (Room C17)</b> <ul style="list-style-type: none"> <li>«Real-time landscape-size convective clouds simulation and rendering» Prashant Goswami, Fabrice Neyret.</li> <li>«Implicit Mesh Generation using Volumetric Subdivision» Christian Althofen, Felix Schuwirth, André Stork, Dieter Fellner.</li> </ul>
10:30 - 11:00 am	Coffee break (Room C13)
11:00 - 12:00 pm	<b>Plenary Talk 1: Miguel A. Otaduy</b> <ul style="list-style-type: none"> <li>«Simulation of true cloth»</li> </ul>
12:00 - 1:30 pm	Lunch (Room C13)
1:30 - 3:00 pm	<b>Technical Session 2. Chairman: Matthias Müller-Fischer (Room C17)</b> <ul style="list-style-type: none"> <li>«Moving Least Squares boundaries for SPH fluids» Stefan Band, Christoph Gissler, Matthias Teschner.</li> <li>«Approximate Air-Fluid Interactions for SPH» Christoph Gissler, Stefan Band, Andreas Peer, Markus Ihmsen, Matthias Teschner.</li> <li>«A Fast Linear Complementarity Problem (LCP) Solver for Separating Fluid-Solid Wall Boundary Conditions» Michael Andersen, Sarah Niebe, Kenny Erleben.</li> </ul>
3:00 - 3:30 pm	Refreshment (Room C13)
3:30 - 5:00 pm	<b>Technical Session 3. Chairman: Kenny Erleben (Room C17)</b> <ul style="list-style-type: none"> <li>«Unified Simulation of Rigid and Flexible Bodies Using Position Based Dynamics» Mihai Francu, Florica Moldoveanu.</li> <li>«Kernel Projection of Latent Structures Regression for Facial Animation Retargeting» Christos Ouzounis, Alex Kilias, Christos Mousas.</li> <li>«Inverse Kinematic Solutions for Articulated Characters using Massively Parallel Architectures and Differential Evolutionary Algorithms» Ben Kenwright.</li> </ul>
7:00 - 11:55 pm	<b>DINNER: BRASSERIE GEORGES</b>

# MONDAY

TIME	EVENT
9:00 - 9:30 am	<b>Work-in-Progress + Poster session. Chairman: F. Jaillet (Room C17)</b> <ul style="list-style-type: none"> <li>«Hybrid 3D Mass-Spring System to simulate isotropic materials» Karolina Golec, J.-F. Palierne, Florence Zara, Stéphane Nicolle, Guillaume Damiaand.</li> <li>«Human Grasping Interaction Capture and Analysis» Benjamin Verdier, Sheldon Andrews, Paul G. Kry.</li> </ul>
9:30 - 10:30 am	<b>Technical Session 4. Chairman: G. Zachmann (Room C17)</b> <ul style="list-style-type: none"> <li>«Elasticity-based Clustering for Haptic Interaction with Heterogeneous Deformable Objects» Benoît Le Gouis, Maud Marchal, Anatole Lécuyer, Bruno Arnaldi.</li> <li>«See-through Visualisation for Training and Assessing Un sighted Physical Examinations» Alejandro Granados Martinez, Jan Perhac, Lucy Victoria Rosby, Lee Yee Mun, Glenn Tan Wei Leong, Shawn Tai Tai Chi, Jenny Higham, Nadia Thalmann, Naomi Low-Ber, Fernando Bello.</li> </ul>
10:30 - 11:00 am	Coffee break + Industrial Session (Room C13)
11:00 - 12:00 pm	<b>Plenary Talk 2: Marek Teichmann (Room C17)</b> <ul style="list-style-type: none"> <li>«Fast, stiff and under control»</li> </ul>
12:00 - 12:15 pm	<b>CLOSING &amp; AWARD: F. Jaillet (Room C17)</b>

