

# TRAINING SCHOOL 1- FUNDAMENTALS AND WEARABLES

We are happy to announce our first SOFTWAREAR Training school at Cergy, France!

The training school will be open to both, participants of SOFTWAREAR project as well as all interested students and researchers. Join us to learn about soft actuator technology including ionic, dielectric and phase-change actuators, the state-of-the-art of wearables and the relationship between technology progress in smart materials science and textile/fashion design.

Detailed information on program, venue, travel and accommodation as well as fees are listed below.

## Training school program

March 28 – 31, 2023, La Turbine, 32 Bd du Port, 95000 Cergy, France

### TUESDAY, MARCH 28<sup>th</sup> - Overview on soft actuator technology

<b>8:45</b>	<b>Registration</b>
<b>9:00</b>	<b>Welcome addresses and Partner &amp; ESR presentation</b> Edwin Jager, LiU, Linköping University, Sweden
<b>10:00 (visio)</b>	<b>Soft Sensors and Actuators using Conducting Polymers</b> Hidenori Okuzaki, University of Yamanashi, Japan
<b>11:00</b>	<b>Conjugated polymer actuators – from principles to applications</b> Edwin Jager, LiU, Linköping University, Sweden
<b>12:00</b>	<b>Lunch Break</b>
<b>13:45</b>	<b>Stimuli-responsive hydrogels: basics, technology and applications</b> Andreas Richter, TU Dresden, Germany
<b>14:45</b>	<b>Dielectric Elastomer Actuators - Introduction and applications</b> Herbert Shea, EPFL, Switzerland
<b>15:45</b>	<b>Coffee Break</b>
<b>16:00</b>	<b>Plant-inspired phase transition actuators</b> Ingrid Graz, Johannes Kepler University Linz, Austria

### WEDNESDAY, MARCH 29<sup>th</sup> – Material and characterization

<b>9:00 (visio)</b>	<b>Actuator metrics and how to measure them</b> Geoffrey Spinks, University of Wollongong, Australia
<b>10:00</b>	<b>Ionically conducting polymer: synthesis and properties</b> Frédéric Vidal, CY Cergy Paris Université, France
<b>11:00</b>	<b>Coffee Break</b>
<b>11:15</b>	<b>Physico-chemical properties of polymer materials</b> Cédric Vancaeyzeele, CY Cergy Paris Université, France

<b>12:15</b>	<b>Lunch Break</b>
<b>13:45</b>	<b>Electronically conducting polymer: synthesis and properties</b> J. Martinez, LiU, Linköping University, Sweden
<b>14:45</b>	<b>Synthesis of elastomers</b> Anne Skov, Technical University of Denmark, Denmark
<b>15:45</b>	<b>Coffee Break</b>
<b>16:00</b>	<b>Shape Memory Polymers</b> Cédric Plesse, CY Cergy Paris Université, France
<b>17:15</b>	<b>Team building (Softwear member only)</b>

#### THURSDAY, MARCH 30<sup>th</sup> – Wearable

<b>9:00</b>	<b>State of the art in wearable technology, use cases and applications</b> Christina Bodenstein, Elitac Wearable, Netherlands
<b>10:00</b>	<b>Conductive textile fibers, an overview</b> Nils-Krister Persson, Swedish School of Textiles, Sweden
<b>11:00</b>	<b>Coffee Break</b>
<b>11:15</b>	<b>High Performance Fibers from Carbon Nanotubes: Synthesis, Characterization, and Applications</b> Mathieu Pinault, CEA, France
<b>12:15</b>	<b>Lunch Break</b>
<b>13:30</b>	<b>(Electro)active materials: a design-led perspective</b> Aurélie Mossé, Ensadlab, Ecole des Arts Décoratifs, France
<b>14:30</b>	<b>Equal opportunities for all</b> Anne Skov, Technical University of Denmark, Denmark
<b>15:00 – 17:00</b>	<b>Workshop (Softwear members only)</b>
<b>19:00</b>	<b>Gala diner</b>

#### FRIDAY, MARCH 31<sup>th</sup> – Soft skills

<b>9:00</b>	<b>Sustainability- the fundamental concepts</b> Nils-Krister Persson, Swedish School of Textiles, Sweden
<b>09:45 (visio)</b>	<b>Ethics in research</b> Federico Carpi, University of Florence, Italy
<b>10:15</b>	<b>Coffee Break</b>
<b>10:30</b>	<b>Introduction to Intellectual Property</b> Noémie Faure, CY, France
<b>11:15 (visio)</b>	<b>Making a Data Management Plan</b> To be confirmed, EPFL, Switzerland
<b>11:45</b>	<b>Data Management Plan Workshop</b>
<b>12:30</b>	<b>Closing</b>