

# IN-SITU WORKSHOP CIC NanoGUNE SAN SEBASTIAN

CIC NanoGUNE & Protochips

Week 46, November 15<sup>th</sup> / 16<sup>th</sup>

CIC nanoGUNE, Tolosa Hiribidea, 76, 20018 Donostia-San Sebastian / Spain

Local organisers: A.Chuvilin, E.Modin

Participants shall learn about new capabilities for cutting-edge in-situ electron microscopy in liquid, gas and vacuum environments.

Recent results and publications of leading researchers with possible applications will be discussed. During the hands-on sessions both the Fusion heating system as well as the Poseidon liquid cell system will be demonstrated on a TEM with realistic samples.

**REGISTRATION AVAILABLE ONLINE:**

[www.protochips.com/gate/2018-nanogune-workshop](http://www.protochips.com/gate/2018-nanogune-workshop)

## Thursday, November 15<sup>th</sup>

10:00 - 10:15	<b>Welcome</b> <i>NanoGune / Protochips</i>
10:15 - 11:00	<b>In situ Electrical Characterization TEM</b> <i>Remy Berthier, Protochips</i>
11:00 - 11:15	<b>Coffee Break</b> <i>with Poster Session</i>
11:15 - 12:00	<b>TBD</b> <i>TBD</i>
12:00 - 12:45	<b>Imaging the Impossible - Liquid Cell TEM Innovations with Poseidon Select</b> <i>Madeline Dukes, Protochips</i>
12:45 - 13:45	<b>Lunch Break</b> <i>with Poster Session</i>
13:45 - 14:30	<b>In-situ Gas Cell TEM</b> <i>Invited talk</i>
14:30 - 16:00	<b>Session 1</b> In-situ electro-thermal TEM 1 In-situ liquid TEM 2 FIB sample prep
16:15 - 16:30	<b>Coffee Break</b> <i>with Poster Session</i>
16:30 - 18:00	<b>Session 2</b> In situ electrical characterization TEM 1 In situ liquid TEM 2 FIB sample prep
20:00 - 22:00	<b>Dinner</b> <i>TBD</i>

\* Schedule and times subject to change



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## Friday, November 16<sup>th</sup>

10:00 - 10:45	<b>In-situ Liquid Cell TEM</b> <i>Invited talk</i>
10:45 - 11:30	<b>Metal Organic Vapor Phase Epitaxy Inside a TEM Under Atomic Resolution Conditions</b> <i>Rainer Straubinger, Protochips</i>
11:30 - 11:45	<b>Coffee Break</b> <i>with Poster Session</i>
11:45 - 12:30	<b>TBD</b> <i>Invited talk</i>
12:30 - 13:15	<b>Panel discussion</b> <i>TBD</i>
13:15 - 13:30	<b>Concluding Remarks</b> <i>CIC NanoGUNE / Protochips</i>

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