

# *interactions of interwar physics technology, instruments, and other sciences*

After World War I quantum theory and nuclear physics dominate the history of physics, while World War II is often seen as the watershed moment when physics achieved new levels of social and technical engagement at truly industrial scales. The workshop aims to shift this narrative to various interwar sites of industrial interaction between physical research and technical instrumentation. It looks at domains of engagement between physics and electrical engineering, hydrodynamics, and chemistry. By pursuing these technical questions it also shows how industry, state agencies, and foundations were already playing a constitutive role in physics research during the interwar period.

December 9-10

Nádor u. 15

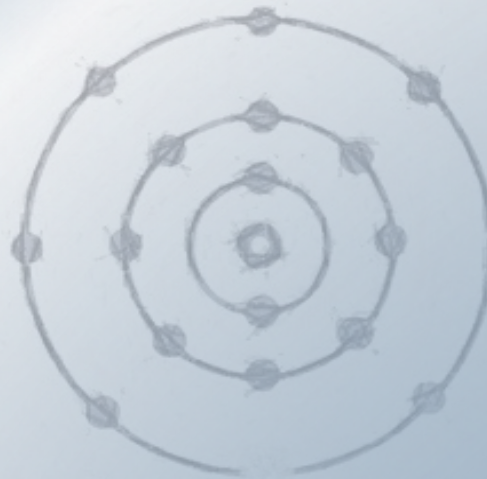
Room 101

Open to the public

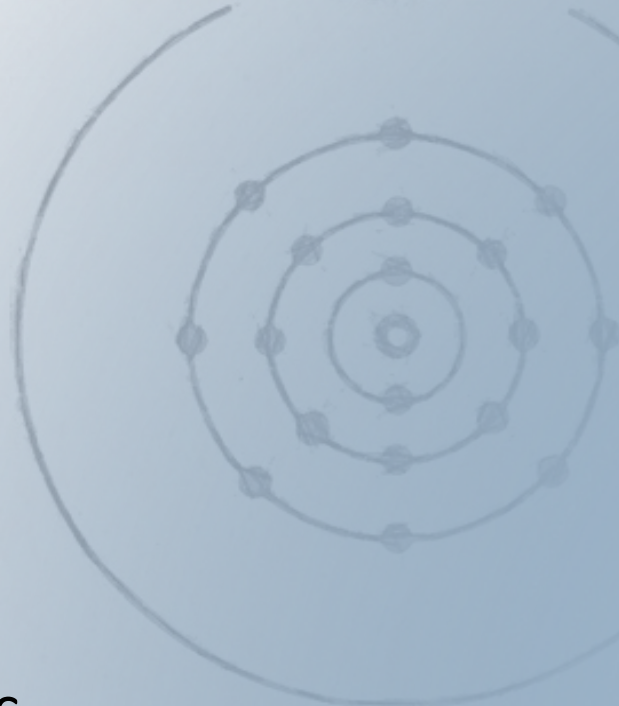
Günther-  
Schulze  
1923

Hosted by Science Studies at CEU and the Cohn Institute  
for History and Philosophy of Science and Ideas, Tel Aviv University

*Chlor-  
Atom*



*Kalium-  
Atom*



Participants:

- Yoel Bergman (Tel Aviv)
- Michael Eckert (Munich)
- Karl Hall (Budapest)
- Kenji Ito (Tokyo)
- Shaul Katzir (Tel Aviv)
- Falk Mueller (Frankfurt)
- Jaume Navarro (Bilbao)
- Maria Rentetzi (Athens)
- Richard Staley (Cambridge)
- Scott Walter (Nantes)

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# Workshop schedule

*Friday, December 9*

14:00-14:30 Welcome and introductory remarks

14:30-15:30 Richard Staley  
“Machines, modernity, and the new physics in post-war discourse”

15:30-16:00 *Coffee break*

16:00-17:00 Scott Walter  
“Historical approaches to early wireless technology, 1906–1929”

17:00-18:00 Falk Mueller  
“Industrializing electron: AEG, electron optics and the beginning of electronics in Germany”

*Saturday, December 10*

9:30-10:30 Karl Hall  
“‘Out of the labyrinth of recipe commerce’: Dielectric breakdown, tacit knowledge, and the disenchantment of applied science”

10:30-11:30 Kenji Ito  
“‘Electron theory’ in Japan, or how electrical engineering prepared atomic physics there”

11:30-12:00 *Coffee break*

12:00-13:00 Michael Eckert  
“Turbulence research in the 1920s and 1930s between mathematics, physics and engineering”

13:00-14:00 *Lunch*

14:00-15:00 Yoel Bergmann  
“The importance of corporate researches and technical developments in interwar thermionics”

15:00-16:00 Jaume Navarro  
“One phenomenon, three agendas. The early days of electron diffraction”

16:00-16:30 *Coffee break*

16:30-17:30 Shaul Katzir  
“The shaping of interwar piezoelectricity by technology”

17:30-18:30 Concluding discussion  
Moderator: Maria Rentetzi

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