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ESTRATTO

da

PHYSIS Rivista Internazionale di Storia della Scienza $2023/2 \sim (LVIII)$



DISSIS LVIII 2-2023 International Journal for the History of Science





pubblicata dalla DOMUS GALILÆANA DI PISA

in collaborazione con SOCIETÀ ITALIANA DI STORIA DELLA SCIENZA SEMINARIO DI STORIA DELLA SCIENZA DELL'UNIVERSITÀ DI BARI

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2024: Abbonamento Annuale (2 fascicoli) – Annual subscription (2 issues)

Il listino prezzi e i servizi per le **Istituzioni** sono disponibili sul sito www.olschki.it alla pagina https://www.olschki.it/acquisti/abbonamenti

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PRIVATI

Italia € 117,00 (carta e on-line only)

Individuals

Foreign \in 154,00 (print) • \in 117,00 (on-line only)





LEO S. OLSCHKI EDITORE FIRENZE



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Ogni articolo è sottoposto alla valutazione anonima di due esperti. Each article is submitted to a double-blind scholarly peer review.

PHYSIS

INTERNATIONAL JOURNAL FOR THE HISTORY OF SCIENCE

Vol. LVIII (2023)

Fasc. 2

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OMPRASAD

FROM 'STATE' SCIENCE TO 'PEOPLES' SCIENCE: SCIENCE MOVEMENTS IN POST-COLONIAL INDIA (1947-1980)

The Association of Scientific Workers of India (ASWI) was established in 1947, by Indian scientists known to leftist scientists like John D. Bernal and Frédéric Joliot Curie. Rather than being looked upon as a Soviet front, the ASWI was very closely tied to the state in post-colonial India. Members of the ASWI as they became part of the science-policy establishment brought in ideas that were distinctly associated with leftist imaginations of science. However, a change in the landscape of science movements occurred in the 1970s when a crisis of legitimacy of science surfaced in India. This was rooted in questioning the role of science and technology in development and put a big question mark over the approach adopted about science in India. One response to this crisis was the 'Peoples Science' movement. This was different from the radical science movements that emerged in the 'West' in the 1960s. Not all of them shared radical imaginations of science but they differed from the ASWI. While the members of the ASWI were predominantly based in the industrial research laboratories, the scientists associated with the people's science movement came from a variety of disciplines including nuclear physics, engineering sciences, and science education pointing to a widening of the base of science movements in India. In my paper, I will chart out the trajectory of India's science movements from the ASWI to the peoples' science movement. I will argue that the shift in their nature mustbe understood in the changing contexts surrounding the relationship between science and development. I will conclude the paper by arguing that there is a need to rethink some of the historiographic assumptions about science movements to understand their features in the 'non-West.'

R. Debailly

CHALLENGING SCIENCE'S AUTONOMY. THE "CRITIQUE DES SCIENCES" IN FRANCE

This article examines the emergence, development, and demise of the 'critique des sciences' in France in the aftermath of May 1968. Initially, the critique of science in France was inspired and influenced by other radical science movements abroad. The critique of science and technology led to counter-expertise and the questioning of hierarchies and inequalities in the scientific institution. Ephemeral political journals appeared during this period, in which scientists, engineers and technicians published articles about ecology, feminism, and the power of 'Mandarins' in the scientific laboratory, for example. In France, the movement evolved in a singular way during the 1970s and 1980s since it disappeared slowly. The French critique of science was pursued in the 1980s in the field of popularization and expertise. Considerations about the role of science in society also converged with the renewal of the study of science in academic disciplines. I suggest that the understanding of the critique of science in France requires that we consider the political context of the 1970s, and the relationships between the critique of science and the disciplines dedicated to the analysis of science and technology.

S. Doetz

THE SOCIALIST PATIENT COLLECTIVE, THE PRINTING PRESS, AND ANTI-PSYCHIATRY IN HEIDELBERG IN THE 1970S

To question psychiatry was part of the bigger 'fight against repression' of the New Social Movements and the alternative milieu in West Germany from the late 1960s until the 1980s. In this paper, I focus on the media production of the Socialist Patient Collective (Sozialistisches Patientenkollektiv, SPK) in Heidelberg, which challenged hegemonic concepts of 'normality' and 'insanity' and instead sought to generate its own episteme at the start of the 1970s. I argue that the SPK's media production, which was in the hands of the group itself, enabled the collective to react very quickly and independently to current events and that it was thus an important element in the escalating conflicts between the group and its opponents. In addition, the SPK succeeded in building up a (counter-) public, which even reached beyond West Germany and connected the SPK to psychiatry-critical groups in France, the Netherlands, and Italy. Moreover, writing, typing and printing leaflets had also a group-building and empowering effect.

P. LouČová

"AN ATTEMPT TO LOOK OUT OF THE ECXOLOGICAL DEPRESSION:" SAMIZDAT AND ALTERNATIVE ECOLOGICAL JOURNALISM IN COMMUNIST CZECHOSLOVAKIA, 1969-1989

The aim of this joint contribution is the analysis of ecological samizdat and grey zone ecological journals in Czechoslovakia in the 1970s and 1980s. On one hand, samizdat journalism dealing with ecological issues expressed people's frustration with the devastation of nature; on the other hand, it criticised the inaction of the state apparatus. Ecological samizdat journalism was a response to the communist government and its censorship of environmental data which were very often considered top-secret, even though they were provided e.g. as part of international monitoring of air pollution or collected as part of global environmental programmes. The paper will describe the role of the alternative publishing spheres as the important communication channels and sources of expertise and data, also testifying to the different forms and plurality of Czechoslovak environmentalism and the ecological movement (from conservationists to "green underground"), their mutual crossovers and interactions, as well as their transnational connections.

THE VISIBLE TECHNICIAN: SCIENTIST, TECHNICIANS, AND THE NEUTRALITY OF SCIENCE IN 1960S AND 1970S ITALY

The end of the 1960s and the first half of the following decade was a period of intense political and social tensions in Italy. The social struggles involved the world of research too. Non-tenured scientists and technicians often went on strike. Between 1968 and 1970 all the major Italian scientific institutions were at some point occupied by young non-tenured scientists and technicians. Their protests tended to converge with those of factory workers and technicians. Industrial workers not only asked for better work conditions and higher salaries: they contested the hierarchical organization of production and they criticized the role of science and technology in contemporary productive processes. Likewise, non-tenured scientists and technicians criticized the hierarchical nature of scientific research organization, which - they argued - was rooted in the alleged neutrality of science. They also stood against the military use of scientific research. Most senior scientists were disconcerted. On being accused of authoritarianism, some heads of laboratories even resigned. Through the analysis of archival documents and publications, this paper explores the social, cultural, and political reflections produced by technicians and young scientists. It analyses how the conflict between senior scientists and junior scientists and technicians spread across Italian society. The paper shows how non-tenured scientists and technicians were often acute observers of contemporary scientific research and Italian society. It explains how they appropriated and elaborated the reflections of Thomas Kuhn and produced an original collective discourse, which echoed some of the themes that STS scholars and historians of science would tackle in the late 1970s.

G. IENNA

THE SOCIAL AND POLITICAL ROOTS OF THE INSTITUTIONALIZATION OF THE HISTORY OF PHYSICS IN ITALY

This article reconstructs the socio-political preconditions behind the emergence of Italian physicists' interest in the history of physics. I focus on the most important events in the field of Italian physics during the 10 years preceding the first two editions of the 1981 Pavia conference on the history of physics. In particular, I draw a line of continuity between the summer schools of Varenna in 1970 and 1972, the conference organized by SIF "Science in a Capitalist Society," the birth of radical science movements in Italy, and the querelles that occurred between Italian historians and philosophers of science such as Ludovico Geymonat and Paolo Rossi, with a new generation of physicists interested in the historical, social, and political dimensions of their discipline. These preconditions seem to be the essential reasons through which the "history of physics" was institutionalized as an autonomous discipline in Italy, as opposed to the history of science practiced in the departments of philosophy and human sciences.

F. Lusito

THE SCIENTIA CASE: SCIENTIFIC CENSORSHIP AND IDEOLOGICAL STRUGGLES, 1973-1975

In the 1970s, in Italy, the discussion around the neutrality of science reached its peak, involving scientists, intellectuals of different backgrounds, historians and philosophers. Several occasions gave rise to polemics and ideological contrasts, which were mostly consumed between Marxists. The Scientia case, which arose with the editorial on the theme "Science, Culture and Society" in 1973, originated a small 'war,' which was followed by an episode of political-ideological censorship that extended until 1975. The episode, which also involved the journal Sapere and several historians and scientists, turned into a symbolic battle for freedom of speech: The discussion concerned not only the protracted reflection on the neutrality of science, but also the contrast between methodological, epistemological and historiographical approaches. The opposition between dialectical materialism and historical materialism consequently took on the features of a generational clash, and a battle between veteran-communist dogmatism and the innovative instances of authors close to extra-parliamentary movements: this was the origin of the 'clash' between Geymonat's Milanese school and the post-Sixties generation of historians of science. Thanks to unpublished documents, it has been possible to reconstruct an unexplored but crucial episode of the "Italian science wars," fundamental to understanding the dynamics that inflamed these wars from then on.

G. Sanvitale

"SCIENCE GAVE US NOTHING." WOMEN AND TECHNOLOGY IN ITALIAN FEMINISM AS A RADICAL SCIENCE MOVEMENT (1970S -1980S)

This article investigates historical intersections between feminism and technology by framing feminism (1970s-1980s) as a Radical Science Movement. This proposition aims to overcome the notion that feminist movements did not significantly engage with science and technology, by showing how they shared several perspectives with Radical Science Movements. Drawing from Wacjman (1991) and from original research on Italian feminist collectives and groups, based on sources like magazines, manifestos, books etc., the article investigates eight dimensions in which Radical Science Movements and feminism brought forward similar critical discourses and practices: feminist critiques of science and technology; technologies of production; reproductive technologies; domestic technologies; built environment technologies; technology as a masculine culture; communication technologies; technology and the natural environment.

Direttore responsabile: prof. Stefano Carrai Registrazione del Tribunale di Firenze n. 4026 del 6 novembre 1990

ISSN 0031-9414

FINITO DI STAMPARE
PER CONTO DI LEO S. OLSCHKI EDITORE
PRESSO ABC TIPOGRAFIA • CALENZANO (FI)
NEL MESE DI DICEMBRE 2023

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