Challenges and Expectations

Drafting such a wide research framework does not come without challenges, of course. Projects in this research group act on the assumption of science as a global function system, which implies shared institutions, goals, organizations, inclusion formulas, networks, and many more elements that constitute the structures of the system of science and blur nationalities and borders. It will therefore be a major requirement for studies conducted in the group to



right) and tutor Lou Zhicen at the China Academy of Chinese Medical Sciences. Source: Xinhua, undated (1950s).

operate with utmost caution, by clarifying continually what China or Chinese actually means in this context, and whether this categorization is derived from self-conceptualization or ascription. Does it mean scientific activity that originates in China, or is produced by participants in the global system of science who conceive of themselves as Chinese (for example, by citizenship or descent) or are identified as Chinese by other participants, or by those who are affiliated with institutions in the PR China? Finally, although the research group will focus on contemporary Chinese society, each study will aim at representing an exhaustive analysis, which will naturally include historical perspectives.

First Research Projects

Among the first projects pursued by individual group members are a study of how Chinese polar scientists navigate between research and diplomacy, an analysis of the internationalization strategies of Chinese universities, an exploration of the role of science and scholars in Chinese local governance, and an investigation into the seeming interrelatedness of political initiatives and the evolution of new scientific disciplines and communities in China. The group will also work on joint publication projects, such as Gauging China's Global Scientific Expansion and Science and Democratic and Authoritarian Social Structures (working titles) and looks forward to hosting visiting researchers and workshops at the MPIWG.

ABOUT THE AUTHOR

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Front page: Collage of recent global news headlines on the topic of China and science, Source: Yu-Fen Lai,

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The global system of science has seen the unprecedented rise of one particular world region over the past two decades: the People's Republic of China (PRC) has become the largest producer of scientific articles. The country is climbing fast and steadily in global university rankings, is home to scientists whose groundbreaking and sometimes quite controversial findings and methods increasingly make world news, and pours a staggering amount of money into funding research both domestically and internationally. The MPIWG's new Lise Meitner Research Group "China in the Global System of Science" will take a close and comprehensive look at these developments, with a special interest in exploring the role of the political regime and societal values as environmental factors for science in contemporary China, in international academic cooperation, and in world science.

publishing first results and sharing data widely with colleagues around the world and through all are) heavily politically controlled in China, Chinese scientists were working tirelessly, instantly that scientific analyses and the publication of information about the emerging disease were (and early stages of the Covid-19 pandemic in China to observe interesting paradoxes: at the same time networks, and individuals in China and in international cooperation. One only has to look at the attempts at both political and non-political steering versus the agency of scientific communities,

for science in China, or could it actually be based on different research ethics or societal attitudes exist, is it due to conscious political strategies of creating a Standortvorteil ("location advantage") opportunities to experiment regularly attract media attention. If this greater freedom does indeed of researchers who relocate to China with an expectation of finding seemingly unconstrained observe convergence or divergence of scientific practice in China and other world regions. Cases A further question is what other societal standards, ethics, and principles are at play when we

(e.g., animal testing) in order to enable scientific toward what should be morally and legally permitted

sorts of scientific channels and collaborations.

progress?

scientific disciplines, including the social sciences and humanities.



we expect to contribute to comparative research science in contemporary China. This is also where focuses especially on the societal environments for an explicit sociology of science perspective in that it The research group seeks to tie in here and will apply the science system of China and its global integration. understanding of the most recent developments in merely possess an anecdotal and mainly quantitative by colleagues here at the MPIWG-it seems we disciplines in China-many of which are conducted epistemology and the evolution of specific scientific the history of science and technology and about Unlike the rich insights produced by studies in



local, and in its global dimensions. The term "science" here is used inclusively and encompasses all system of science in recent decades, both qualitatively and quantitatively, in both national and interdisciplinary research group will explore the many facets of China's stunning ascent in the project The Merton Project: Science and Political Regimes in the 21st Century. Scholars in this and theory that goes beyond China as "a case," as formulated, for instance, in our collective



by the Polar Research Institute of China in My-Alesund, Norway, Source: Irene Old The Arctic Yellow River research station (中國北極黄河沟) established 2013



input across the disciplines, including a "system of philosophy and social sciences with contributions and go beyond mere techno-nationalism, calling for an increase in Chinese more comprehensive and diverse. Furthermore, they re-emphasize the necessity of indigenous

Chinese characteristics that incorporates the country's socialist practices."

Science as a Political Value

current policies and measures are even

especially in micro-political contexts in China-in other words, a re-entry of science as At the same time, there are also signs of a growing significance of "true" scientific analyses,

against environmental pollution, are just two examples ologist Zhong Nanshan (蟹南山), the face specific scientific studies and data in public protests innovations, or the increasingly heavy references to very take part in local governments' policy and governance The degree to which scholars are now consulted and the beginning of CCP rule in the mid-twentieth century. always subordinated to politics and ideology following scientific authority, but where modern science was in a society that traditionally valued knowledge and a value in itself and for the political process. This is

of this apparent trend.



Analyzing and Understanding Developments in Science in China

current developments in all their complexity. This will include, for instance, explorations of the regime interfaces, this Lise Meitner Research Group seeks to analyze and understand the policy in China in general, and tracing the forms and effects of science-politics and science-Beyond accurately mapping the structures, dimensions, and norms of contemporary science