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## Legitimizing Ess Big Science As A Collaboration Across Boundaries

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In Legitimizing ESS the authors examine the complexity of the cultural, social, and political processes from which and in which Big Science develops. They do so by focusing upon the planning and development of the European Spallation Source, ESS, that is to be located in Lund in southern Sweden.

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"Big Science" is a broad epithet that can be associated with research projects that involve huge budgets, big facilities, complex instrumentation, years of planning, and large multidisciplinary teams of researchers. Legitimizing the ESS examines the complexity of the cultural,...

*Legitimizing ESS: Big Science as a Collaboration Across ...*

In "Legitimizing ESS", the authors examine the complexity of the cultural, social, and political processes from which and in which Big Science develops. They do so by focusing upon the planning and development of the European Spallation Source (ESS), which is to be located in Lund in southern Sweden.

'Big Science' is a broad epithet that can be associated with research projects as different as the Manhattan Project, the Hubble Telescope-construction, and the CERN-establishment in Geneva. While the science produced by these projects is vastly different, they have in common the fact that they all involve huge budgets, big facilities, complex instrumentation, years of planning, and large multidisciplinary teams of researchers. In this book the authors examine the complexity of the cultural, social, and political processes from which and in which Big Science develops. They do so by focusing upon the planning and development of the European Spallation Source, ESS, that is to be located in Lund in southern Sweden. Together, the chapters represent a variety of perspectives to highlight the complexity of the processes that are integral to Big Science. Thus, this volume examines the very different roles Big Science may be given in different contexts: locally, regionally, nationally and internationally, as well as historically. The book is based on the research of scholars based at Lund University from the disciplines of archive and library sciences,

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art history and visual studies, ethnology, gender studies, geography, history of ideas and sciences, media and communication, philosophy, and policy research.

This thought-provoking book expands on the notion that Big Science is not the only term to describe and investigate particularly large research projects, scientific collaborations and facilities. It investigates the significant overlap between Big Science and Research Infrastructures (RIs) in a European context since the early twenty-first century. Contributions to this innovative book not only augment the study of Big Science with new perspectives, but also launch the study of RIs as a promising new line of inquiry.

This book investigates the political history of Big Science in Europe in the late twentieth century and the early twenty-first century, characterised by the founding histories of two collaborative, single-sited facilities namely the European Synchrotron Radiation Facility (ESRF) in Grenoble, France and the European X-Ray Free-Electron Laser (European XFEL) in Schenefeld, Germany. Under the heading of the other Europe, this book presents the history and politics of European Big Science as an alternative road to (Western) European integration besides the mainstream political integration process of the European Economic Community and the European Union. It shows that Big Science has a role to play in European politics and policymaking and that the crucial and unavoidable symbiosis between science, technology and politics brings the creation of Big Science projects back to geopolitical realities.

This book analyses the emergence of a transformed Big Science in Europe and the United States, using both historical and sociological perspectives. It shows how technology-intensive natural sciences grew to a prominent position in Western societies during the post-World War II era, and how their development cohered with both technological and social developments. At the helm of post-war science are large-scale projects, primarily in physics, which receive substantial funds from the public purse. Big Science Transformed shows how these projects, popularly called 'Big Science', have become symbols of progress. It analyses changes to the political and sociological frameworks surrounding publicly-funding science, and their impact on a number of new accelerator and reactor-based facilities that have come to prominence in materials science and the life sciences. Interdisciplinary in scope, this book will be of great interest to historians, sociologists and philosophers of science.

The thesis investigates the social processes involved in the practices of futuring. It addresses the question of how social practices contribute to the production and maintenance of robust versions of the future. It asks how best we should study futurity, including expectations, imaginations, promises and visions. Existing research tells us rather little about how ordinary practices render the future

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as a particular, publicly available and accountable presence or absence. In what ways do people achieve situated performances of certainty about the future? The thesis addresses these questions by drawing upon recent theoretical themes in Science and Technology Studies (STS), notably accountability relations and mundane practices in science and technology. The empirical focus of the thesis is an extended ethnographic study of the European Spallation Source (ESS) – a major neutron-based science research facility currently under construction in Lund, Sweden. The methods used are a combination of participant observation, interviews, documentary analysis, and ethnomethodologically inflected textual analysis. The thesis reports findings in relation to each of four aspects of ESS work: 1) the textual practices rendering the future of the ESS in local newspaper coverage; 2) documentary analysis of a 2014/2015 Call for ESS Instrument Proposals; 3) observations from visits to ESS and participation in staged “future walks” and 4) the mundane laboratory practices of measuring thickness in an ESS Detector Coatings Workshop in Linköping. The results of these empirical analyses are used to argue for the importance of generating and sustaining accountability relations in futuring practices, for understanding how the future is imagined and made to come about. The thesis concludes that looking at practices in this way has political implications – among other things, it allows to see how agency and capability-to-affect the future is distributed, built, eroded and attributed.

An increasing number of scholars have begun to see science and technology as relevant issues in International Relations (IR), acknowledging the impact of material elements, technical instruments, and scientific practices on international security, statehood, and global governance. This two-volume collection brings the debate about science and technology to the center of International Relations. It shows how integrating science and technology translates into novel analytical frameworks, conceptual approaches and empirical puzzles, and thereby offers a state-of-the-art review of various methodological and theoretical ways in which sciences and technologies matter for the study of international affairs and world politics. The authors not only offer a set of practical examples of research frameworks for experts and students alike, but also propose a conceptual space for interdisciplinary learning in order to improve our understanding of the global politics of science and technology. The second volume raises a plethora of issue areas, actors, and cases under the umbrella notion techno-politics. Distinguishing between interactional and co-productive perspectives, it outlines a toolbox of analytical frameworks that transcend technological determinism and social constructivism.

In the aftermath of both ongoing globalisation (with both widening and deepening effects on countries, regions and cities) and structural changes resulting from the 2008 economic recession, regions and cities in our world are confronted with a different arena of players,

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performances and institutions. The challenges are formidable and numerous. Many regions and cities seem to resort to their indigenous strength, without much regard to other players in the field. This has enormous consequences for the competitive behaviour and profile of regional and urban actors but has at the same time deep impacts on the distribution of wealth, income and employment over and within countries, regions and cities. There is indeed much evidence that disparities among regions and in cities are increasing in this new force field. This special issue of REGION makes a solid scientific attempt (i) to map out the spatial consequences of recent transitions in growth trajectories of countries or regions, and (ii) to trace policy strategies and design effective policy information, to cope adequately with these new challenges. The present special issue does so by highlighting the new force field of regional and urban dynamics from three angles in the context of spatial quality and inequality. These will be briefly sketched below.

Although international trade has been much studied by both economists and regional scientists, the nature, causes, and the consequences of interregional trade, i.e., trade between regions within countries has received far less attention. In addition, given recent advances in new economic geography on the theoretical front and in the development of both input-output and computable general equilibrium models on the empirical front, the important subject of interregional trade is now open to study using these theoretical and empirical methodologies. Given this state of affairs, this book aims to present chapters written by a carefully selected group of experts in the field and thereby shed valuable light on key outstanding questions concerning the region and trade. These questions include, but are not limited to, the role of external economies in shaping the pattern of interregional trade, the role of natural resources versus traditional factors of production such as labor and capital in driving interregional trade, the relationship between transport and interregional trade, "high value" interregional trade in services, and the role of interregional trade estimation in the construction of a multi-regional, input-output system. Contents: Introduction: Introduction to "The Region and Trade: New Analytical Directions" (Amitrajeet A Batabyal and Peter Nijkamp) Theory: Statistical Discrimination, Endogenous Quality, and North-South Trade (Arnab K Basu) Regional Trade in a Three Country Model (Henry Thompson) Voluntary Formation of Free Trade Area in a Third Country Market Model (Ryoichi Nomura, Takao Ohkawa, Makoto Okamura and Makoto Tawada) Empirics: Exploring the Spatial Connectivity of US States, 1993-2007 (Jee-Sun Lee and Geoffrey J D Hewings) Manufacturing Fetishism: The Neo-Mercantilist Preoccupation with Protecting Manufacturing (Alecia Waite Cassidy, Edward Tower and Xiaolu Wang) The Evolution of Freight Movement and Associated Non-Point-Source Emissions in the Midwest-Northeast Transportation Corridor of the United States, 1977-2007 (Benjamin Brown-Steiner, Jialie Chen and

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Digital self-tracking devices and data have become normal elements of everyday life. *Imagining Personal Data* examines the implications of the rise of body monitoring and digital self-tracking for how we inhabit, experience and imagine our everyday worlds and futures. Through a focus on how it feels to live in environments where data is emergent, present and characterized by a sense of uncertainty, the authors argue for a new interdisciplinary approach to understanding the implications of self-tracking, which attends to its past, present and possible future. Building on social science approaches, the book accounts for the concerns of scholars working in design, philosophy and human-computer interaction. It problematizes the body and senses in relation to data and tracking devices, presents an accessible analytical account of the sensory and affective experiences of self-tracking, and questions the status of big data. In doing so it proposes an agenda for future research and design that puts people at its centre.

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