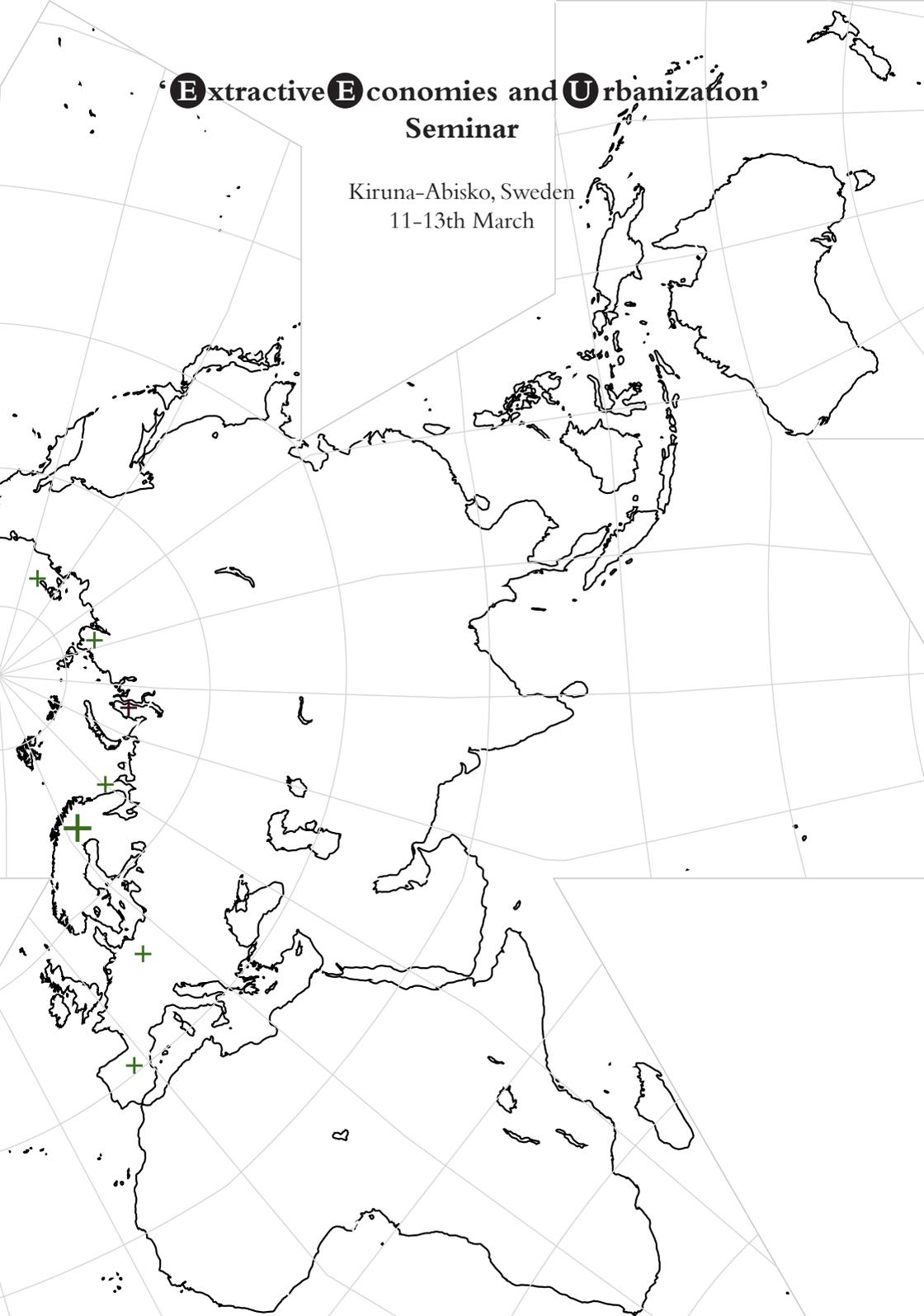


# 'E xtractive E conomies and U rbanization' Seminar

Kiruna-Abisko, Sweden  
11-13th March



Extractive economies produce a specific set of settlements with distinctive potentials and challenges. These settlements are designed and built in a wide range of scales and shapes, from small towns to cities, having an impact on the design of the landscape, on regional and national infrastructures, and global networks. These settlements produce multiple challenges for the people living and working in and around these extractive economies, including the frictions between local communities and global demands, the environmental impacts, the constant redefinition of heritage, and the territorial dependence on mono-functional economies

*Extractive Economies and Urbanization* is a two-day seminar focusing on the challenges and impacts of the urban realities around extractive industries in Northern Sweden, with additional perspectives from relevant cases from the East Arctic Passage and Latin America. The seminar brings together a series of scholars from the fields of urbanism, landscape, geography, ethnography, geochemistry, and heritage studies to advance ideas and analysis in relation to the ongoing urban transformations derived from mono-functional and extractive economies.

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*Extractive Economies and Urbanization* is a collaboration between Adolfo Sotoca, Chair of Architecture at Luleå University of Technology and Carlos Mínguez Carrasco, Senior Curator at ArkDes, with the support of Maria Ragnestam, Artistic Director at Konstmuseet i Norr.

The Chair Professorship in Architecture at Luleå University of Technology leads the EE&U initiative. It is funded by Artic 5, a consortium participated by LTU, Umeå University, UiA Tromsø University, Oulu University and Lapland University.

ArkDes is organizing an exhibition in collaboration with Konstmuseet i Norr on the role of architecture, design and urban planning in processes of resource extraction industries in the north of Sweden, taking the current relocation of Kiruna as a starting point.

## Themes

The discussion will be structured according to four areas:

**Extractive (in)tangibilities**, with a focus the how the urban, ecological, and cultural impacts of resource extraction industries are rendered tangible (or intangible) at a local, regional, and planetary scale.

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**Future Mining**, with a focus on the impacts that mining has on limited resources, like air, water, and soils. The session will discuss the environmental problems of nowadays metal mining operations and will reflect on possibilities of future more sustainable mining operations including both technical aspects and social license related policies.

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**Narratives of counter-narratives**, with a focus on the contested role played by architecture, landscapes, and its representations (models, drawings, renders, maps, pamphlets, advertisements, etc.) in the public arenas. From the ways in which the current relocation of Kiruna and Malmberget is being represented by the media and other stakeholders, to the mapping and counter-mapping of mining prospects as a form of resistance, and the analysis of the successes and setbacks of projects that imagined the Arctic as the scenario for an ‘ideal city’.

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**Mirrors of extraction**, where similar patterns shared by divergent geographies around mining industries will be compared.

# **P**rogramme

## **Day 1** (*11th March, afternoon-evening*)

- - Arrival at Swedish Polar Institute research station. Gathering and welcome.
- 19:30 - Dinner (SFT Abisko Station)

## **Day 2** (*12th March*)

- 7:15 7:45 Breakfast (SPI Station)
- 8:00 9:15 Trip from SPI Station to Kiruna
- 9:30 10:00 Introduction** Adolf Sotoca, Maria Ragnestam, Carlos Mínguez Carrasco
- 10:00 11:30 Extractive (in)tangibilities**
- 10:00 10:20 *Solid Matters. The Multiscalar Technologies of Urbanization.*  
Adrià Carbonell
- 10:20 10:40 *Arctic Urbanization. A framework.*  
Berta Morata
- 10:40 11:00 *The NTM as a heritage discourse: paradoxes and controversies.*  
Andrea Luciani / Jennie Sjöholm
- 11:00 11:30 Round-up discussion
- 11:30 12:30 Future mining**
- 11:30 12:00 *The Future of Mining: The need to transform mine waste into georesource.*  
Bernhard Dold
- 12:00 12:30 Open discussion. Setting-up the Agenda
- 12:30 13:30 Lunch** (place to be confirmed)
- 14:00 16:30 Mine visit**
- 16:45 17:45 Trip back from Kiruna to SPI station in Abisko
- 19:00 - Dinner (Abisko Mountain Lodge)

**Day 3 (13th March)**

7:45 8:15 Breakfast (SPI Station)

8:20 8:30 Program for the day

**8:30 10:00 Narratives of counter-narratives of extractive economies**

8:30 8:50 *Counter-Prospecting.*  
Kjertin Uhre

8:50 9:10 *Envisioning Arctic Mining Towns: the Reality of Ralph Erskine's Northern Projects.*

Ann Maudsley

9:10 9:30 *Please Stand By: On waiting, eventfulness, and intra-national media narratives of displacement and resettlement in Kiruna, Sweden.*

Elisa Maria Lopez

9:30 10:00 Round-up discussion

10:00 10:30 Coffee break

**10:30 12:00 Mirrors of extraction**

10:30 10:50 *Left-overs: The three flows of extractivism in Norrbotten.*  
Mar Esteve / Adolf Sotoca

10:50 11:10 *Extraction, abstraction and prostration: a new order of Brazilian social space.*

Leandro Medrano / Luiz Recaman

11:10 11:30 *Agromineros in the Bolivian Plateau: the transformation of the indigenous territories in contact with mining.*

Alberto Vazquez

11:30 12:00 Round-up discussion

**12:00 12:30 Conclusions, future directions**

12:30 13:30 Lunch and farewell (SPI Station)

## **B**iographies

### **Adrià Carbonell**

Adrià Carbonell is an architect and urban designer. He teaches at the Royal Institute of Technology in Stockholm, and has previously held teaching positions at KU Leuven, Umeå University and the American University of Sharjah. His work focuses on the relationships between architecture, urbanism and geography. His writings have been published in *Zarch Journal of Interdisciplinary Studies in Architecture and Urbanism*, *San Rocco*, *Monu-magazine* and *Cartha*, among others.

### **Berta Morata**

Berta Morata is an architect and urbanist (UPC BarcelonaTech 2015), and PhD student at the Luleå University of Technology. Working at the intersection of urbanization theory, geospatial analysis, design and ecology. Primarily interested in the spatiality and representation of urbanization processes, currently researching on the metabolics of urbanization in the Arctic. Parallel to research, she also runs with other colleagues the project and web “Architecture Archives in the Arctic Regions”.

As a practitioner, she has been working and collaborating in architectural offices within Germany, China, Japan and Switzerland.

### **Andrea Luciani**

Born in Milan, 1981, he is a researcher at Luleå University of Technology, Sweden, with a background and education as building conservator and architect (PhD in Preservation of Architectural Heritage in 2013 and MSc in Architecture in 2007 at Politecnico di Milano, Italy).

His current research focuses on the energy efficiency of heritage buildings in cold climate. He is also interested in the urban transformations of historic mining towns in Northern Sweden and on the application of the concept of resilience to the historic built environment and its communities.

In the past, he has worked with hygrothermal analysis and diagnostics in historic buildings and museum environments in Italy.

## **Jennie Sjöholm**

Jennie Sjöholm is associate senior lecturer in urban design & conservation at Luleå University of Technology. She has a MS in Integrated Conservation of Built Environments at University of Gothenburg, and a PhD in Architecture at Luleå University of Technology. Her research focuses on heritagisation processes in built environments and conceptualisations of built heritage. Current research projects include investigations of how heritagisation interacts with structural changes in the built environments, and how long-term conservation strategies can be integrated in urban planning processes. The research also addresses modern heritage, and sustainable renovation and management of post-war architecture. Prior to her PhD, she worked in practice. Positions held includes conservation officer at the National Heritage Board, and conservation specialist at the Norrbotten County Museum. Sjöholm is also board member in the Swedish Association for Building Preservation (Svenska byggnadsvårdsföreningen), and editorial board member of their journal *Byggnadskultur* (Built Heritage). She is also board member of the Swedish Industrial Heritage Association (Svenska industriminnesföreningen), which is Sweden's representative in The International Committee for the Conservation of the Industrial Heritage (TICCIH).

## **Bernhard Dold**

Bernhard Dold is Chair Professor in Applied Geochemistry at the Luleå University of Technology, Luleå, Sweden. He is also President of SUMIRCO.EIRL (Sustainable Mining Research & Consultancy), Chile. He has taught and has researched at the University of Chile and University of Concepción, Chile, University of Lausanne and Geneva, Switzerland, University of Waterloo, Canada, and at the International University of Andalusia (UNIA), Huelva, Spain. He received his Diploma degree in geology (Dipl. Geol.) from the University of Bremen, Germany (1995).

He did his Ph.D. at the University of Geneva, Switzerland (1999). His research focus is in biogeochemical and hydrogeological processes controlling element cycles in ground- and surface waters, soils, industrial waste environments, bioleaching operations, and ore formation.

Characterization, control, prevention, and remediation of environmental pollution, with special focus on acid rock drainage in mine waste, mine closure, and ore deposit environments and its application for a more sustainable mining operation is developed.

## **Kjerstin Uhre**

Kjerstin Uhre is an architect MNAL currently finishing her PhD project in Arctic landscapes at the Oslo School of Architecture and Design. Her thesis – The Perforated Landscape – addresses ongoing and contested transitions of outfield landscapes in Sápmi. She holds a diploma from the Bergen School of Architecture and has studied Philosophical Aesthetics at the University in Bergen. Uhre is Director of Dahl & Uhre architects in Tromsø. She is a member of the research group ‘Place, Power and Mobility’ at the University in Tromsø – The Arctic University of Norway. She has taught at the Faculty of Art in the Arctic University of Norway UiT, at AHO, and at the Bergen School of Architecture. She has contributed papers to journals and conferences and participated in the AHO Future North project.

## **Ann Maudsley**

Dr. Ann Maudsley, Research Coordinator, Contemporary Research at ArkDes  
Ann was awarded her Doctor of Philosophy in Architecture and Planning, through the University of Melbourne, in 2016. This PhD research examines how nuanced attributes of urban form react to change, realising their potential and limitations, which can be addressed in future urban planning and development. Ann’s experience in research is coupled with teaching and work in practice, in built environment fields, internationally. This combination of scholarly, educational and professional activities has taken place in universities, government authorities as well as cultural and not-for-profit sectors, in Melbourne, London and Stockholm.

In her current position at ArkDes, Ann is researching the planning and design of Arctic settlements, and the factors that have affected their sustainability and resilience.

## **Elisa Maria Lopez**

Elisa Maria Lopez is a PhD candidate in the Department of Cultural Anthropology at Uppsala University. Her dissertation, “Ptarmigan and Iron: Mining, Displacement, and Social Transformation in Kiruna, Sweden” (working title) explores the sociocultural practices and meanings behind mining-induced displacement and resettlement in Kiruna since 2012.

### **Mar Esteve**

Mar Esteve is an architect and urbanist from UPC\_BarcelonaTECH (2018) and she is currently a visiting researcher at Luleå University of Technology. Primarily interested on the impacts of urbanizations processes, she is working on the project “A Country of Many Capitals” granted by the Lundbergs Foundation. Her research identifies, describes and proposes spatial planning and housing strategies to be able to ensure environmental, economic and social sustainability in Swedish medium-size cities.

Mar studied one year abroad at the University of Louvain (Belgium) and attended international workshops in Italy, Singapore and Greece. As a practitioner, she collaborated in the architectural offices of López Rivera Arquitectos (Barcelona), Lacaton & Vassal (Paris) and the startup Cíclica (Sant Cugat).

### **Leandro Medrano**

Professor of the Department of History of Architecture and Design Aesthetics at FAUUSP. Graduated from FAUUSP where he also obtained a doctorate degree. He has concluded a Masters at the Universitat Politècnica de Catalunya, a postdoctoral fellowship at Universitat Politècnica de Madrid and was a full-time Professor at Unicamp for several years. He is a member of the “Executive Committee” of the Unicamp Visual Arts Museum and the “Group of Contemporary Studies” of CEAV-Unicamp, representative of FAUUSP in the Council of USP’s Science Museum, member of the Congregation of FAUUSP, Chair of the Research Committee (CPq) of FAU and Editor-in-Chief “Revista da Pós” of FAUUSP. His works deal with issues related to the urban development of cities. Theory of architecture and urbanism, urban planning, urban economics, urban space, collective dwelling, social housing and higher education, are some of the fields involved in his recent research. He has published several articles in national and international professional journals and is the author of “Habitação e Cidade Contemporânea: São Paulo e Madri”, “Vilanova Artigas: Habitação e Cidade na Modernização Brasileira” and “As Virtualidades do Morar: Artigas e a Metrópole”.

### **Maria Ragnestam**

Maria Ragnestam is a curator and the Artistic Director for Konstmuseet i Norr. Since 2011 she has been running the project to actualise an art museum in Kiruna, which is now planned to open in November 2018. Ragnestam is a board member of Statens kulturråd (The Swedish Arts Council) for image and form. She has worked as head of jury for Konstens väg in Övertorneå to procure public art, written a monthly column about art for the regional press and has produced numerous texts for different publications.

## **Luiz Recaman**

Professor of the Department of History of Architecture and Design Aesthetics at FAUUSP. Graduated from FAUUSP. Obtained Master and PHD degrees in Aesthetics at the School of Philosophy and Human Sciences of USP. He is currently a professor in the Department of History of Architecture and Design Aesthetics at FAUUSP, in the Undergraduate and Graduate programs. He was awarded the AR “FAPESP (2013–16), Universal Edital CNPq 2008 CAPES Edital / DGU no. 040/2012, and 13 other grants and scholarships linked to FAPESP. Between 2013 and 2009, was a professor at IAU–USP. His main research deals with architecture aesthetics, critical architecture, Brazilian Modern Architecture and the relationship between social housing and urban development. He has published several articles in national and international professional journals, and is the author of “Brazil’s Modern Architecture” (Phaidon, 2004), “Habitação e Cidade Contemporânea: São Paulo e Madri”, “Vilanova Artigas: Habitação e Cidade na Modernização Brasileira” and “As Virtualidades do Morar: Artigas e a Metrópole”.

## **Alberto Vázquez Ruiz**

Alberto considers himself a Social Scientist: MSc. in Communication (UCM, Madrid), two years of Economy (UNED, Madrid) and an Advanced MSc. in Conflict and Development (UGent, Belgium). His dissertation deals with the ‘sustainable development’ projects executed by the Poopó Basin Program (a 5-year EU international development cooperation program carried out in the huge mining area of Oruro, Bolivia).

In 2014, he joined the team of CATAPA (Technical Academic Committee for Assistance in Environmental Issues), a Belgian non-profit organization that works on the problems caused by mining extraction and that also promotes a sustainable and fair system for all. In 2017, he coordinated the Flemish cooperation project “Rainwater Harvesting around Lake Poopó” in Oruro (Bolivia), working together with the local NGO CEPA (Centre for Ecology and Indigenous Peoples) and the indigenous communities affected by mining activities.

Nowadays he is Project Coordinator for CATAPA’s tasks in the European Commission’s ‘Horizon 2020’ project NEMO (2018–2022). It is an ‘Innovation Action’ aiming to implement the existing technological developments on a pilot scale (in Finland and Spain) to demonstrate that mining tailings can be profitably revalorized, becoming a new input of metals, sulphur and clean construction raw materials; therefore, eliminating the risks and the costs for the generations to come.

## **Carlos Mínguez Carrasco**

Carlos Mínguez Carrasco is Senior Curator at ArkDes, Sweden's National Center for Architecture and Design. Between 2012 and 2017, he was Associate Curator at Storefront for Art and Architecture in New York, and Chief Curator of the 2016 Oslo Architecture Triennale with the After Belonging Agency. Mínguez has organized a wide range of exhibitions, events and competitions with a particular focus on how social, cultural, and political pressing issues influence contemporary architecture, including *Cáceres Creates Cáceres* (2008), *Interpretations* (2010), *BEING* (2013), *Letters to the Mayor* (2014–2018), *Temple of Manufacturing* (2017), and *Making Room for Action* (2017) in collaboration with Performa. His texts have been published in different catalogues and journals as *Domus*, *Migrant*, and *Código* and he is editor of various publications, including “*After Belonging: The Objects, Spaces, and Territories of the Ways We Stay in Transit*” (Lars Müller Publishers, 2016), “*OfficeUS Manual*” (Lars Müller Publishers, 2017) and the upcoming “*bodyspacemotionthings*” (Performa, 2019). He is currently organizing an exhibition at ArkDes on the contested role of architecture in the processes of resource extraction industries in the north of Sweden.

## **Adolfo Sotoca**

Adolfo Sotoca is Chair Professor in Architecture at Luleå University of Technology and Professor Serra Hunter (on leave from 2017 to 2019) at UPC\_BarcelonaTECH. He holds a PhD which he developed between his home city of Barcelona and Germany. He has been Visiting Professor at UIUC (USA) and at CTU (Poland), as well as Guest Researcher in several institutions across Europe, Latam and Singapore. Besides his professional practice as principal of CSArquitectes, Adolfo Sotoca has been also active as panelist of UN-Habitat, member of the International Forum of Urbanism and the European Postgraduate Program in Urbanism. Adolfo has been researching and teaching urbanism and theory of architecture & urbanism since early 2000' and is author as a wide range of publications, ranging from scientific papers to books and reports. His research is currently focused on the environmental impacts of urbanization processes and he is at work in sharpening and contesting the concept of sustainability that lies behind the agenda of extractive economies.



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