



Dr. Sarah Bell

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杰出讲座系列

共同设计城市韧性

摘要：城市越来越容易受到极端事件的影响，如极端高温和强烈风暴，以及长期面临的压力，如贫富差距和空气污染。提高城市系统和社区的韧性是城市领导人、企业和市民都越来越关注的问题。这是一项复杂的任务，需要不同的利益相关者之间跨学术研究和行业领域的合作。共同设计城市韧性的理念使得受城市极端事件影响的人共同参与到如何最好地提升城市韧性的决策中来。2014–2020 年在伦敦开展了一项“自下而上基础设施 (Bottom-Up Infrastructure)”研究项目，旨在通过使当地社区参与到基础设施的设计和决策中来提高城市韧性。本讲座将介绍“自下而上基础设施”的共同设计方法，该方法是通过城市排水、水-能源-食物之间的关系以及空气污染的案例研究而形成的。该讲座还将涉及城市中极端高温问题，以及共同设计方法如何帮助城市形成可持续和韧性的解决方案。

简介：Sarah Bell教授是墨尔本大学城市韧性和创新的墨尔本市主席。她的研究涉及城市韧性和社区对基础设施韧性设计的参与。她的学术工作借鉴了社会科学的研究，以更好地理解人、技术和自然如何相互作用来创造城市系统。她是The Retrofit Lab (<https://www.unimelb.edu.au/retrofit>) 的主任，这是一个跨学科的研究中心，通过改造现有建筑、基础设施和景观来支持向可持续的、有韧性的城市过渡。Sarah还是澳大利亚工程师协会的会员。她的新书《共同设计基础设施》将于2022年由UCL出版社公开出版<https://www.uclpress.co.uk/products/186914>。

CIRCLE：宜居城市基础设施韧性中心是伊利诺伊大学厄巴纳-香槟分校 (UIUC) 格兰杰工程学院和浙江大学 (ZJU) 建立的三个联合研究中心之一。CIRCLE 杰出讲座系列旨在为教师和学生提供与该领域国际知名专家会面和互动的机会。

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Distinguished Lecture Series
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Co-designing Urban Resilience

ABSTRACT: Cities are increasingly vulnerable to the impacts of acute shocks, such as extreme heat and intense storms, and chronic stresses, such as economic inequality and poor air quality. Improving the resilience of urban systems and communities is of growing concern to city leaders, businesses and citizens. This is a complex task requiring collaboration between diverse stakeholders and across academic and professional disciplines. Co-designing urban resilience engages those impacted by urban shocks and stresses in decisions about how best to improve resilience. Bottom-Up Infrastructure was a research program based in London 2014-2020 that aimed to improve urban resilience by engaging local communities in infrastructure design and decisions. This lecture will describe the Bottom-Up Infrastructure co-design method as it was developed through case studies of urban drainage, the water-energy-food nexus and air pollution. It will consider the problem of extreme heat in cities and how co-design methods might help to develop sustainable and resilient solutions.

Bio: Professor Sarah Bell is City of Melbourne Chair in Urban Resilience and Innovation at the University of Melbourne. Her research addresses urban resilience and community engagement with infrastructure. Her scholarly work draws on the social sciences to better understand how people, technologies and nature interact to create urban systems. She is the Director of The Retrofit Lab <https://www.unimelb.edu.au/retrofit>, an interdisciplinary research hub to support the transition to sustainable, resilient cities by transforming existing buildings, infrastructures and landscapes. Sarah is a Fellow of Engineers Australia. Her latest book 'Co-Designing Infrastructures' will be published open-access by UCL Press in 2022 (<https://www.uclpress.co.uk/products/186914>).

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