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FINAL TECHNICAL REPORT

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Award Title: *The Changing Landscape of Feedstocks for Chemical Production--Implications for Catalysis: A Workshop*

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Final Report

The low cost and increased supply of natural gas and natural gas liquids has caused a shift in chemical production. To better understand the opportunities for catalysis research in an era of shifting feedstocks and to identify the gaps in the current research portfolio, the Board on Chemical Sciences and Technology (BCST) of the National Academies of Sciences, Engineering, and Medicine conducted an interactive, multidisciplinary public workshop in March 2016. The goal of this workshop was to identify advances in catalysis that can enable the U.S. to fully realize the potential of the shale gas revolution for the U.S. chemical industry and, as a result, to help target the efforts of U.S. researchers and funding agencies on those areas of science and technology development that are most critical to achieving these advances.

Over the course of the 2-day workshop, the presentations and discussions in the breakout groups highlighted several key points and broad challenges and opportunities where advances in catalysis could enable optimal use of the nation's shale gas for the benefit of the chemical industry. The Academies hosted about 60 in-person participants and over 100 participants listening via webcast. Many of the research opportunities identified and discussed among participants during the workshop are not unique to lighter feedstocks.

The workshop report which can be downloaded at no cost at www.nap.edu summarizes the presentations and discussions from the workshop.

<https://www.nap.edu/catalog/23555/the-changing-landscape-of-hydrocarbon-feedstocks-for-chemical-production-implications>