

# **DIRECTOR'S REMARKS**

**NATIONAL SCIENCE BOARD**

**JULY 17, 2018**

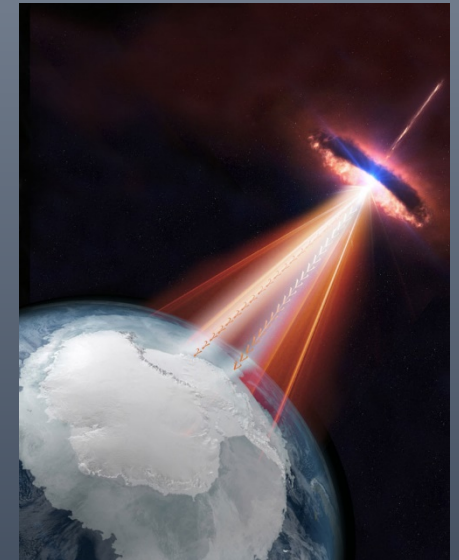


# ICECUBE AND MULTI-MESSENGER BLAZARS



[https://www.nsf.gov/news/mmg/mmg\\_disp.jsp?med\\_id=184063&from=](https://www.nsf.gov/news/mmg/mmg_disp.jsp?med_id=184063&from=)

# ICECUBE AND MULTI-MESSENGER BLAZARS



The Washington Post

► How scientists traced the particles 4:00

IceCube Collaboration/NSF

**Scientists detect ghostly neutrinos from a distant galaxy, ushering in a new era of astronomy**

A neutrino — a subatomic particle so tiny and difficult to detect that it is nicknamed a "ghost particle" — has been traced to its origin in a distant galaxy 4 billion years ago.



# WHITE HOUSE STATE-FEDERAL STEM EDUCATION SUMMIT

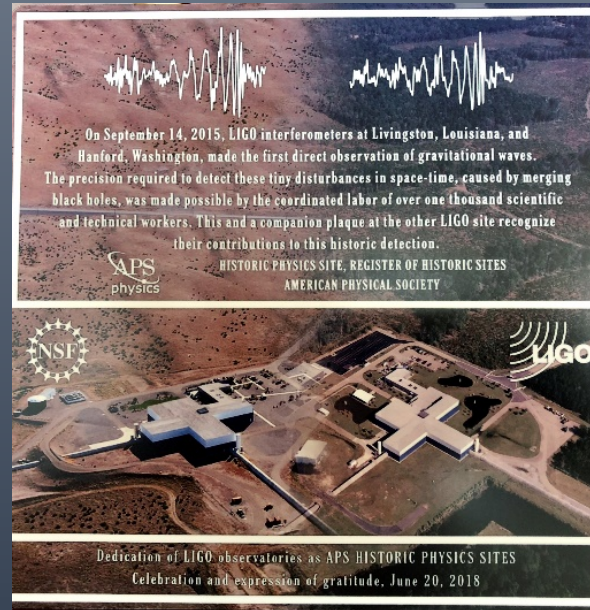




# HIGHLIGHTS AT HOME



## AAAS Forum



## LIGO Dedication



## White House AI Summit and Select Committee on Artificial Intelligence



## Whitehead Institute for Biomedical Research

# HIGHLIGHTS FROM ABROAD



Science Foundation  
Ireland, Dublin

## Thinking Outside the Box, Jerusalem



Global Research Council, Moscow



# COMMUNITY COLLEGE INNOVATION CHALLENGE





# NSF BRANDING

## Gulfstream Aircraft



## McMurdo Station



## LIGO

