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#HeroesofChemistry **ACS Heroes of Chemistry Award**



Inspiring Hero Stories



The **ACS Heroes of Chemistry Award** is the Annual award sponsored by the American Chemical Society that recognizes talented industrial chemical scientists whose work has led to the development of successful commercialized products ingrained with chemistry for the benefit of humankind.

2018 Winners:









www.acs.org/heroes

An individual development planning tool for you!

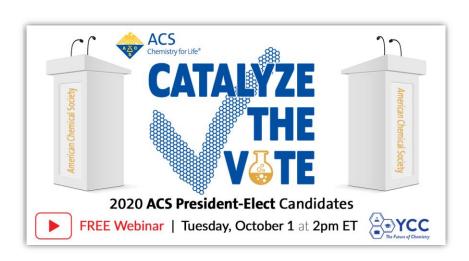




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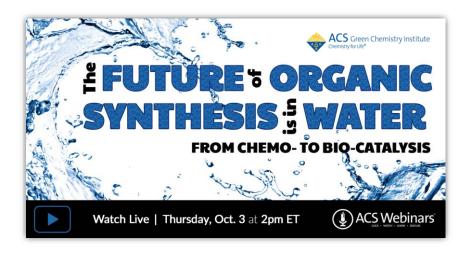


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Webinar Additional Resource!

Podcast: At 97, lithium-ion battery pioneer John Goodenough says his work is not done





ithout fail, the name John Goodenough crops up during Nobel Prize season. Many scientists believe he's deserving of chemistry's top honor. The University of Texas at Austin materials scientist is credited with developing a material that led to mass commercialization of lithium-ion batteries, the technology that powers our smartphones, laptops, electric vehicles, and other gadgets big and small. Though Goodenough, aged 97, hasn't yet won a Nobel Prize, he's not mired down by what could have been. He is renowned for his scientific accomplishments, warm personality, and infectious laugh. In this episode of *Stereo Chemistry*, C&EN reporter Mitch Jacoby joins cohost Kerri Jansen to tell the story of how a former meteorologist with a background in physics came up with a key material that enabled an electronics revolution and how he continues to pursue big questions in electrochemistry today.



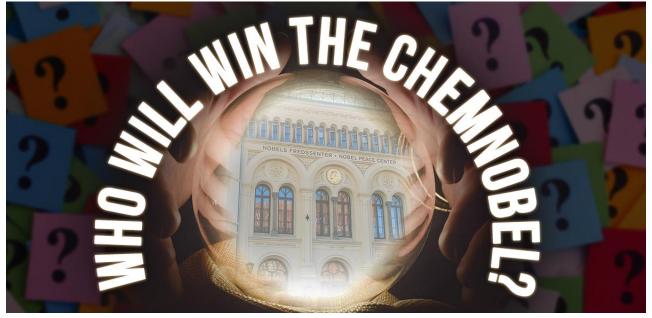
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THIS ACS WEBINAR WILL BEGIN SHORTLY...

Who Will Win the #ChemNobel? Predicting the Next Nobel Laureate(s) in Chemistry

Share your comments in the chat window or tweet at us using #Chemnobel









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Wikipedia: The #ChemNobel Effect

Wikipedia is an amazing resource but not all chemists have a page...

Of the 31 chemists who have got the Chem Nobel since 2007 six had to wait for a

Nobel Prize before being included in Wikipedia.

Source: Wikipedia



Wikimedia Commons

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The Missing #ChemNobels



George Smith 2018



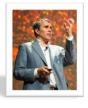
Thomas Steitz 2009



Jacques Dubochet 2017



Shimomura Osamu



Eric Betzig 2014



Martin Chalfie 2008

Source: Wikipedia



Have you ever found a researcher missing from the English language Wikipedia pages who you think should be there?



- · Yes, I made them a page
- Yes, and they're still missing
- No, I have not but that's a great idea
- · No, making Wiki pages is not my thing

Vote and then **share your own answer** with us in the chat window or on Twitter using **#ChemNobel**

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WOMEN IN SCIENCE Where are Wikipedia's women scientists? Efforts to create a more balanced picture of chemistry on the online encyclopedia are gathering steam SEPTEMBER 16, 2018 | APPEARED IN VOLUME 96, ISSUE 37 according to the worldview represented on Wikipedia, anyway. the online encyclopedia, are low. According to the U.S. National Science Foundation's National Center for Science & Engineering Statistics, in 2014, about 39% of chemistry Ph.D.s were award to women, and in 2015, about 36% of employed chemists in the U.S. were women. errepresentation doesn't just apply to chemists WOMEN CHEMISTS BY THE on Wikipedia. In total, just 17% of people with biographical pages on Wikipedia are women, a figure unigapinical pages of Winipedia der Worlen, a nigure that has slowly risen over the past few years, says Alice White, Wikimedian in residence at the Wellcome Trust, in London. Approximately 50% of the world's 7.6 billion 7-11% people are women. The percentage of chemists with Wikipedia is the fifth most-viewed website in the world. biographical pages on Wikipedia who averaging more than 18 billion page views per month. Arguing that a gender imbalance on such a prominent source is problematic, a rapidly growing movement is Pinning down the exact percentages now trying to even things out. of Wikipedia biography pages that exist for chemists is not easy. Alice As the interfacts of the investment to door into release scientists to Wikipedia is Jessica Wade, a physicist at Imperial College London. Wade has recently attracted much attention from the media for creating hundreds of White, Wikimedian in residence at the Wellcome Trust, in London, used two methods to estimate them for C&EN. Wikipedia biography pages for female scientists, both

https://cen.acs.org/careers/women-in-science/Wikipedias-women-scientists/96/i37

living and dead.



Not everyone deserving will get a Nobel Prize, how else can chemists make each other more celebrated and visible?

- More Wikipedia articles
- · More prizes
- · More public outreach
- Other (tell us your ideas in the chat!)

Vote and then share your own answer with us in the chat window or on Twitter using #ChemNobel

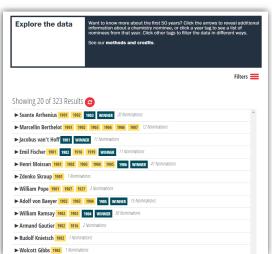


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The #ChemNobel Nominations Database





http://cen.acs.org/nobel-data.html



Should the Nobel Committee allow more than 3 people to a prize?

- No, one to three is a good number
- Yes, four to five would be better
- Yes, there should be a max of ten
- Yes, there should be no limit



Vote and then share your own answer with us in the chat window or on Twitter using #ChemNobel

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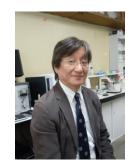
Steve's 2019 #ChemNobel Pick



Jennifer Doudna University of California, Berkeley



Emmanuelle Charpentier
Max Planck Institute for Infection Biology



Yoshizumi Ishino Kyushu University & University of Illinois at Urbana-Champaign

For developing CRISPR-Cas9 gene editing

"They deserve it for developing technology to enable gene editing." – Steven Townsend

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Jess's 2019 #ChemNobel Pick



Carolyn Bertozzi

-and others-



For developing chemistry to enable the study of biomolecules in real time in living systems



Alison's 2019 #ChemNobel Pick



Jennifer Doudna University of California, Berkeley



John B. Goodenough University of Texas at Austin



Carolyn Bertozzi Stanford

For CRISPR, lithium ion batteries or biorthogonal chemistry

"Bioorthogonal chemistry is a transformational tool in chemical biology that impacts the study of biological systems and human health. CRISPR is a transformational technology. And Li battery technology is with each of us everyday! He is 97..." – Alison Narayan





Laura's 2019 #ChemNobel Pick



K. Barry Sharpless Scripps Institute



Valery Fokin University of Southern California



Morten Meldal University of Copenhagen

For developing innovative copper catalyzed cycloaddition reactions

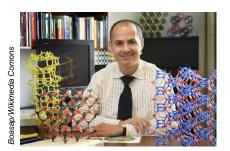
"Click chemistry has been pretty game changing, but a second Nobel for Sharpless would be quite a feat."

— Laura Howes

Lauren's 2019 #ChemNobel Pick



Edith M. Flanigen retired



Omar M. Yaghi University of California, Berkeley,

-and others-

For pioneering work in porous materials, including zeolites and metal-organic frameworks

"MOFs are definitely having a moment—they appear in a story nearly every week in C&EN. But I think we can't forget about zeolites—they're super important industrially and still haven't been honored with a Nobel."—Lauren Wolf





In your opinion who will win the 2019 Nobel Prize in Chemistry?

- Jennifer Doudna, Emmanuelle Charpentier, Yoshizumi Ishino for CRISPR
- Carolyn Bertozzi and others for bioorthogonal chemistry
- John Goodenough and others for lithium-ion batteries
- K. Barry Sharpless, Valery Fokin, Morten Meldal for click chemistry
- Edith Flanigen and Omar Yaghi for porous materials
- * Other (Tell us more in the chat)

Vote and then share your own answer with us in the chat window or on Twitter using #ChemNobel



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Coverage by **C&C11** on Oct. 9, 2019, the day of the #ChemNobel Prize!





News Coverage C&EN will cover the Nobel announcement as soon as the news breaks.

Nobel Prize Video Explainer

The Speaking of Chemistry team will give you the lowdown on 2019's #Chemnobel – prizewinning research.



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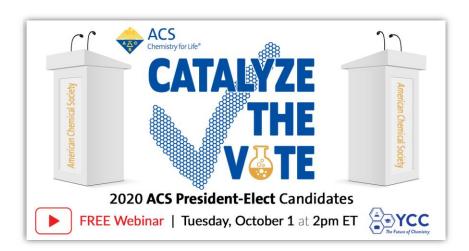
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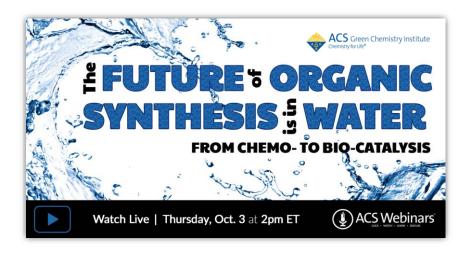
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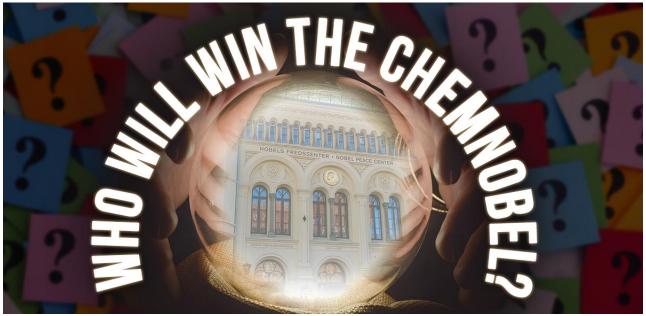
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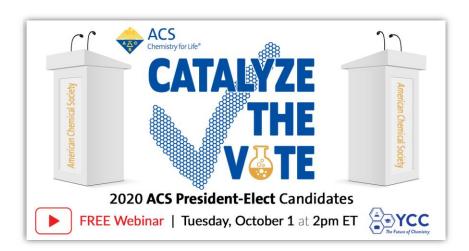


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