

Impulse, volume 7
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Friends and colleagues,

Our innovators have been grabbing headlines of late, with Zach Sun (Cohort Two) and his company Synvitrobio being [featured in *the Economist*](#) and Tom McDonald (Cohort One) and colleague Zoey Herm [appearing in *Nature*](#). For his part, alumnus and Polyspectra founder Raymond Weitekamp offered a heartfelt "thank you"—and detailed his ROI—to his ["angel investor"](#) in a blog post on Medium.

Read on below for all the latest, including plenty of progress beyond just good press. We're particularly excited to highlight Cuberg and Mallinda's recent prototype demonstrations and welcome former Tesla Vice President Mateo Jaramillo to Cyclotron Road as our first Entrepreneur-in-Residence.

Lastly, if you're thinking about applying to Cohort Four, or just want to learn more about Cyclotron Road, we encourage you to [sign up for an informational webinar on our website](#).

Thank you for your continued engagement and support.

Onward,

The Cyclotron Road team.

Cohort News

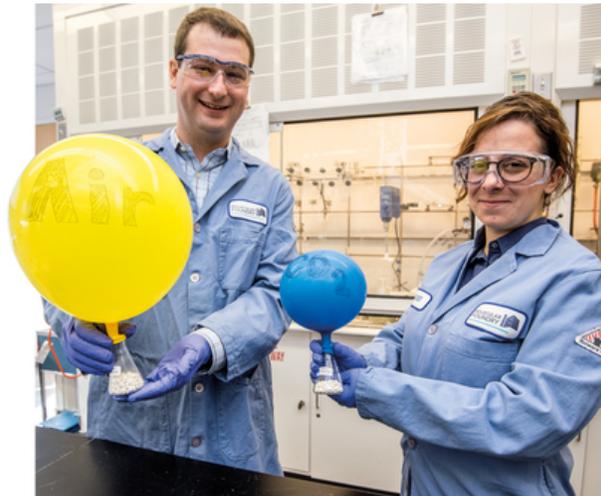
Cyclotron Road innovators featured in *The Economist* and *Nature*



Cohort Two innovator Zach Sun and his company SynvitroBio were featured in the May 6th issue of *The Economist*. The article, entitled "[Cell-free biotech will make for better products](#)," chronicles the emerging field of cell-free biotechnology.

SynvitroBio is using a cell-free discovery platform to find biological pathways to produce new chemicals, starting with improved antibiotic drugs and pharmaceuticals.

Less than two weeks later, Cohort One innovator Tom McDonald and chemist Zoey Herm of Mosaic Materials (pictured at right demonstrating their carbon dioxide absorbing materials) were featured in "[Materials and Engineering: Rebuilding the World](#)," published in *Nature* on May 17th. The article details several startups working to commercialize "technologies that enable sturdier and more sustainable structures."



Cohort News

Watch: New prototype demonstrations from Cuberg and Mallinda

Cuberg, led by Cohort Two innovator Richard Wang, and Mallinda, led by Cohort Two innovators Chris Kaffer and Philip Taynton, both have released videos of recent prototype demonstrations.

production and safety testing of their first prototype battery built in the widely used 18650 format, the same format used in the Tesla Model S and X. The video includes a side-by-side nail puncture test (screenshot at right) with a commercial lithium ion battery, demonstrating improved safety performance.



Mallinda's video shows a lab demonstration of rapid compression molding of pre-cured carbon fiber composites with less than 20-second latency, well under the automotive industry target of one minute.

Congratulations to both of these teams on their progress.

Program News

Welcome to Mateo Jaramillo, our first Entrepreneur-in-Residence!

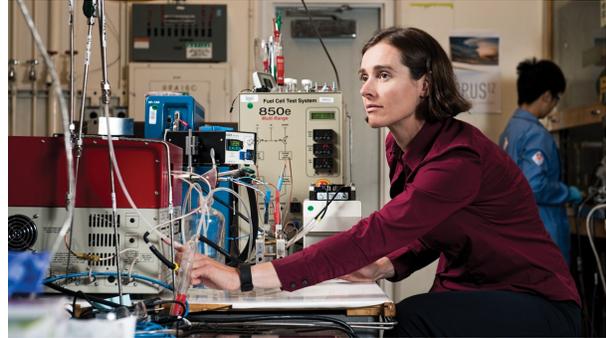
Mateo recently joined our team as the first Entrepreneur-in-Residence (EIR) at Cyclotron Road. Over the next several months, Mateo will scope and pilot this new program—funded by the California Energy Commission—which allows experienced entrepreneurs to engage with our community as they explore new technology projects in the clean power sector.

Prior to Cyclotron Road, Mateo was VP of Products and Programs for Tesla Energy at Tesla Motors, where he was responsible for policy, business development, and product management for the company's grid connected energy storage products. Prior to Tesla, Mateo was Chief Operating Officer and part of the founding team at Gaia Power Technologies, a pioneering distributed energy storage firm. He has an AB in economics from Harvard and a masters in theology from Yale. He is a member of the 2016 Class of Henry Crown Fellows and the Aspen Global Leadership Network at the Aspen Institute.



Get Involved

Cyclotron Road provides two-year fellowships to support entrepreneurial scientists and engineers developing energy technologies rooted in the physical and biological sciences. Fellows spend two years embedded at Berkeley Lab working to bring their ideas to the point of commercial viability. The next application cycle will open on October 1st, 2017.



Participants in the program receive:

- A **two year fellowship**, including a cash stipend, health insurance, and travel funds.
- Unencumbered access to **world-class research facilities and expertise** at Berkeley Lab, along with \$100k of project funds.
- Intensive **training, mentorship, and networking** from our program team and network of advisors.

[Sign up for a webinar here](#)

Program Feature

ICMI: Ilan Gur's keynote address at the 2017 ARPA-E Summit



Cyclotron Road Founding Director Ilan Gur delivered a keynote address at the 2017 ARPA-E Summit. Entitled "A new pathway for science innovation" the talk describes gaps in our research ecosystem that prevent entrepreneurial scientists and engineers from bringing new technologies to market.

On the Road ...

Cohort news ...

Iris PV was featured in *EE News* and was awarded a small business voucher to work with NREL ... Sepion Technologies won a Phase II STTR award working with Argonne National Laboratory ... Visolis won two Phase II SBIRs from the DOE and NSF ... Opus 12 was selected for the Autodesk Impact Program ...

Program news ...

Cyclotron Road was highlighted in ITIF's "Innovation Orchards" report and mentioned in a paper in *Energy Research & Social Science* providing "Four Recommendations for Mission Innovation ... Cyclotron Road and Opus 12 were featured on *CNN Tech* ...

What we're reading ...

[Civil War](#) by Robert J. Gordon ... [An Assessment of ARPA-E](#) by the National Academies ... Mike Taylor's blog post, "[Every attempt to manage academia makes it worse](#)" ...

Calendar

Catch up with us at an upcoming event!

[Informational webinars for prospective applicants](#) July 19th and August 16h at 1:00pm PST

Join a webinar to learn more about Cyclotron Road, meet other interested applicants, and ask questions to the program team. Each webinar is limited to 50 participants. [Sign up here.](#)

["Open House" happy hour](#) August 24th, Daily Pint, Berkeley, CA

All are welcome to join us for our Open House happy hour, which will run from 5:30pm - 7:00pm.

[VERGE](#) September 19th – 21st, Santa Clara, CA (Apply by July 7th)

VERGE is seeking early-stage companies and entrepreneurs addressing market opportunities in these areas to feature in VERGE Accelerate — a fast-pitch competition that takes place in front of an audience of 2,000 business leaders, government officials and investors at VERGE 17 (Sept. 19-21 in Santa Clara). Applications will be accepted through July 7. Learn more and apply today: <http://grn.bz/q5R>



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