

Impulse, volume 4
October 2016

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Friends and colleagues,

Applications for Cohort 3 are due in less than two weeks, so please help us spread the word. If you're a scientist looking to make an impact by commercializing energy technology [head to our website to register your application today](#). There's still plenty of time to put together the simple 5-page application and submit by midnight on Halloween.

This was a special month for us at Cyclotron Road, [as we hosted *Activate 2016*, our first ever Demo Day](#). The event featured our innovators presenting their progress to a fantastic audience of hard tech investors and energy industry leaders. It also served as the launch point for our partnership with Activation Energy, a new non-profit that will be supporting Cyclotron Road in its next chapter. Read on for more details on the event and other exciting progress from our innovators.

Lastly, anyone who's local is invited to join us for our quarterly 'Open House' happy hour at Townie in Berkeley this Thursday at 5:30pm. We hope to see you there!

Thank you for your continued engagement and support.

Onward,

The Cyclotron Road Team

Apply Now: Cohort 3 applications are due October 31st!

Visit cyclotronroad.org/apply to register your application today.

Cyclotron Road is a premier fellowship and incubator for scientists and engineers, sponsored by the U.S Department of Energy at Lawrence Berkeley National Lab (Berkeley Lab). We support U.S.-based innovators from any technical

Cohort innovators are provided with:

- A cash stipend of approximately \$200,000 per participant over two years
- \$100,000 of project funds to be used at Berkeley Lab
- Health insurance benefits and travel funds
- Lab space and tech support from Berkeley Lab experts and facilities
- Clear ownership rights to developed IP
- Intensive support and mentorship from the Cyclotron Road team and our network of advisors



Visit cyclotronroad.org/apply to register your application today and view the full application details. Applications are due at 11:59 PDT on Monday, October 31st.

Cyclotron Road innovators "Drop the Mic" at *Activate 2016*

Our *first ever Demo Day* featured pitches and demos delivered to an audience of over 200 hard tech investors and industry leaders



On Thursday, September 29th, Cyclotron Road hosted *Activate 2016*, our first ever

Activate had a simple goal: gather the leading hard tech investors and industry players from across the energy innovation ecosystem to showcase the astonishing progress our teams have made.

[Missed Activate 2016? Read the full write up and see a video and photos from the event here.](#)

Mosaic Materials, Spark Thermionics, and Cuberg announce seed investments at *Activate 2016* Demo Day

Three Cohort teams announced seed investments at our Demo Day on



September 29th. Mosaic Materials, led by Cyclotron Road innovator Tom McDonald, [announced a seed financing round led by Canadian strategic investment firm Evok Innovations](#), while Spark Thermionics, led by Jared Schwede and Daniel Riley, [announced its seed round led by First Round Capital](#). Spark and Mosaic, both part of Cyclotron Road Cohort 1, also received investments from Baruch Future Ventures.

Cohort 2's Cuberg, led by Richard Wang and Mauro Pasta, announced [their \\$900,000 financing round and joint development agreement](#) with a customer in the oilfield services industry.

Opus 12 joins Breakout Labs, wins \$450,000 *Forbes* Competition, and advances to semifinals of XPRIZE

Opus 12 -- led by Cyclotron Road innovators Kendra Kuhl and Etosha Cave, along with co-founder and CEO Nicholas Flanders (pictured left, right, and center, respectively) -- [continues to build a strong coalition of support to commercialize their record-breaking CO2 recycling reactor](#). Recent successes include being selected to join Breakout Labs, a funding and support program for early stage science startups run by the Thiel Foundation, winning the Forbes 30 Under



Nicholas, and the rest of the Opus 12 team!

Polyspectra and Spark Thermionics featured in *Fortune* article about Cyclotron Road

Polyspectra, led by Cyclotron Road innovator Raymond Weitekamp (pictured at right with chemist Corinne Allen at the Molecular Foundry), and Spark Thermionics were both featured online by *Fortune* in an article published last month. The article highlights Cyclotron Road's approach to supporting early stage innovators and what it has meant for Weitekamp and Spark co-founder Jared Schwede as they've launched their startups over the last two years.



Leadership Council to guide new partnership supporting Cyclotron Road innovators

The Activation Energy Leadership Council includes top industry executives, investors, entrepreneurs, and academics.

Activation Energy is a newly launched non-profit that works with its industry partners to identify and fill gaps for innovators on the road from lab to market. Through their new partnership with Berkeley Lab, Activation Energy will offer Cyclotron Road innovators access to a tailored network of hard tech business and finance advisers, as well as essential market-focused strategic services and educational programming.

Announced at *Activate 2016* on September 29th, the Activation Energy Leadership Council includes top industry executives, investors, entrepreneurs, and academics from across the energy innovation ecosystem. With decades of leadership in the energy sector, these individuals will help guide Activation Energy as it works to reduce barriers to energy technology innovation. The Leadership Council will also offer critical market and technology insights to Cyclotron Road's budding energy entrepreneurs. [Read the full press release here.](#)

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ACTIVATION ENERGY LEADERSHIP COUNCIL:



Arun Majumdar Professor, Stanford University



Liesl Schindler Global Manager for External Technology Collaborations, Royal Dutch Shell

Cyclotron Road model expands to Oak Ridge National Lab

The U.S. Department of Energy and Oak Ridge National Laboratory have launched Innovation Crossroads, the second new program modeled after Cyclotron Road following the launch of Chain Reaction Innovations at Argonne National Lab in May, 2016.



[Applications for Innovation Crossroads are now open](#) and we are excited to work with DOE and our counterparts at Oak Ridge and Argonne to support energy innovators across the nation.

On the Road

Cohort news ...

Visolis [won a Phase II SBIR](#) from the USDA ... Mallinda [won a Phase II SBIR](#) from the NSF ... Polyspectra founder Raymond Weitekamp [published a blog post](#) on additive manufacturing ... Iris PV, Mallinda, Sepion Technologies, and

Program news ...

Leadership Council member Nazeer Bhore [wrote about Cyclotron Road](#) on the ExxonMobil Energy Factor blog ...

What we're reading ...

Mark Hammond's [blog post](#) on why a PhD is the perfect preparation for building a startup (*Nature Jobs*) ... Henry Chesbrough's [article](#) about reinventing innovation and Howard Anderson's [article](#) about the limitations of innovation in big companies (*MIT Technology Review*) ... Eric Paley's [blog post](#) about the risks of venture capital for founders ...

Catch up with us at an upcoming event!

Our program will be represented at the events below. Come say "hello" - We'd love to meet you!

["Open House" Happy Hour](#) October 20, Townie, Berkeley, CA, 5:30pm

Meet the Cyclotron Road team and project leads at our Open House happy hour - any and all are welcome!



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