

February Section Meeting: Dinner and Discover on Future of Drug Delivery and Wound Repair Using Injectable Hydrogels

Hydrogels have been utilized in regenerative applications for many decades because of their biocompatibility and similarity in structure to the native extracellular matrix. Initially, these materials were formed outside of the patient and implanted using invasive surgical techniques. However, advances in synthetic chemistry and materials science have now provided researchers with a library of techniques whereby hydrogel formation can occur in situ upon delivery through standard needles. This provides an avenue to minimally invasively deliver therapeutic payloads, fill complex tissue defects, and induce the regeneration of damaged portions of the body.

Nikki Darling's research focuses on engineering hydrogel biomaterials to support the formation of a reparative niche within damaged or diseased sites of the body. These gels aid in cell migration and proliferation, as well as serve as a platform for delivery of regenerative factors. We see remarkable outcomes when our biomaterials are applied to ischemic tissues, such as brain after stroke and chronic ulcers in skin, in part due to our gel's ability to form a "space-filling vascular

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February Section Meeting

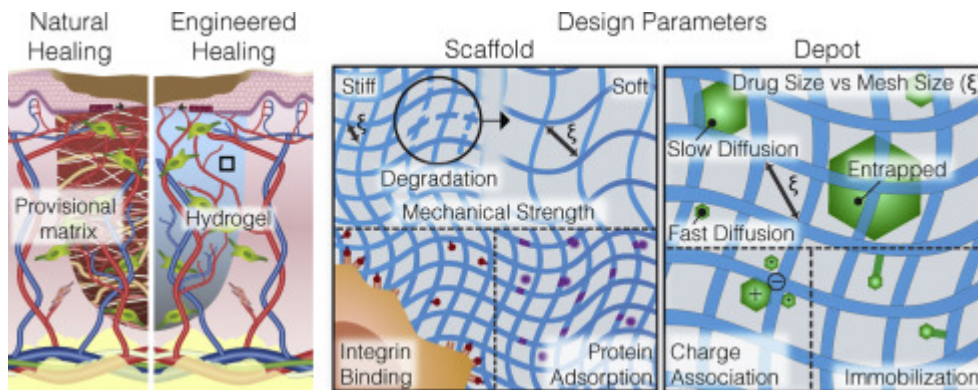
Topic:	Dinner and Discover "Future of Drug Delivery and Wound Repair Using Injectable Hydrogels"
Presenter:	Nikki Darling
Date:	Tuesday, February 12
Time:	6:00 – Networking & Dinner 7:00 – Presentation
Location:	Westridge Recreation Center 9650 Foothills Canyon Blvd, Highlands Ranch, CO 80129
Menu:	TBD
Cost:	\$20 Rocky Mtn. Section Members (w RSVP) \$25 Non-members \$10 Students / Unemployed

RSVP REQUIRED by Friday, February 8 (early RSVPs are greatly appreciated!) You may RSVP via email at rockyaiche@yahoo.com indicating your name, phone number, and number of attendees and pay at the meeting. Or you may RSVP and pay online using [PayPal on our meeting link](#).

*Add \$5 for attending meeting without RSVP

plexus” that not only helps to speed up healing, but also lays the groundwork for recruitment of endogenous stem or progenitor cells. This fosters regeneration of tissue rather than scarring. You can learn more by reading the [ScienceDirect article](#).

Graphic Presentation



mmutnan@juno.com. He will register you at the website and you will receive a judging packet in the mail at the end of March. If you are a last minute judge, please come to the Lowery Center and you will register at that time. In the past parking has been at the CSU Equestrian Center where bus service will take you to the campus. This is a very intense day for judges, but well worth the effort. Michael highly recommends it.

Casting Call for Science Fair Judges

At the start of each year, our Section initiates planning for providing judges for the State Science Fair. Our Section awards a 1st and 2nd place, respectively, in the Junior and Senior High Divisions. The award consists of a certificate and a cash prize (well, a check). The winners are also invited to our April meeting. Judging is held at Colorado State University in the Lowry Student Center. You can learn more about the Science Fair at www.csed.colostate.edu. In mid to late March, the web site will contain a synopsis for each project. You can then review each project. We are classified as Special Judges since our judging criteria consists of reviewing student projects with an emphasis on Chemical Engineering principles. The date is April 11th from 12:15 – 5:00 pm.

If you are interested please contact Michael Mutnan, our Section Coordinator, at 303-423-1586 or

March 2019 Section Meeting

The March 2019 section meeting “Dinner and Discover on Corrosion Control of Buried Steel Piles” is scheduled on the **second Tuesday** of the month, **March 12th from 6:00-8:30pm**. A big thank you to our March presenters, Matt Van Auken and Wink Jenkins, who are members of the Rocky Mountain National Association of Corrosion Engineers (NACE).

2019 Rocky Mountain Student Regional Conference on April 5-6

Learn more about the [AICHE Rocky Mountain Student Regional Conference](#) to be held at the University of Colorado School of Mines in Golden on April 5-6.

AIChE Meetings

2019

- Feb 5-6 [SPE/AIChE Workshop: Spend Less and Produce More](#)
Austin, TX
- Feb 17-20 [6th Int'l Conference on Accelerating Biopharmaceutical Development](#)
Carlsbad, CA
- Mar 11-13 [2019 E2S2-CREATE and AIChE Waste Management Conference](#)
Singapore
- Mar 16-17 [Out to Innovate](#)
University of Southern California,
Los Angeles, CA
- Mar 31-Apr 4 [2019 Spring Meeting and 15th Global Congress on Process Safety](#)
New Orleans, LA

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The objectives of AIChE are to advance chemical engineering in theory and practice, to maintain a high professional standard among its members, and to serve society, particularly where chemical, engineering can contribute to the public interest.

AIChE Rocky Mountain is a public non-profit 501(c)(3) organizations and thus any and all donations are tax deductible.

Rocky Mountain AIChE News Publication Schedule

March 2019 Issue

Articles due Wednesday, March 6

Publish on Friday, March 8

Meeting on Tuesday, March 19

MEETING SCHEDULE

The Rocky Mountain District of AIChE generally meets the third Tuesday of every month, September through November and January through May.