Secrets to success: Show up, do

Maximizing Loonshots to Support the Franchise in Academic Lab Safety

Jessica A. Martin

Joint Safety Team

NSF Graduate Research Fellow, Pinkhassik Lab



DEPARTMENT OF CHEMISTRY

ACS San Diego, DCHAS Symposium, Wednesday, August 28, 2019



What is the point of graduate school?

Professional Development

What is a Joint Safety Team?

Dow Chemical Teams Up With Universities On Laboratory Safety. https://cen.acs.org/articles/90/i44/Dow-Chemical-Teams-Universities-Laboratory.html



Administration/President/VP of Research

Environmental Health & Safety (EHS) Head of Department/Other Faculty

Your own PI/Fellow Graduate Students



Imposter Syndrome is not real

No one knows everything.

Diversity of experience is pivotal to successful projects.

Own your experience.

As graduate students, you collect experiential data EVERY DAY! That is the expertise you bring to the table.



Loonshots by Safi Bahcall

For a loonshot nursery to flourish...3 conditions must be met:

- Phase separation: separate loonshot and franchise groups
- Dynamic equilibrium: seamless exchange between the 2 groups
- Critical mass: a loonshot group large enough to ignite



Some UConn JST Advice

Start with some easy successes.

BUT do not be afraid to tackle the tough stuff!



UCONN I MANAGEMENT OF EXAMPLEMENT

Department of Chemistry

a state of a ferred of the interpretation of the first state of the ferred in the first state of the first s

Joint Safety Team

This accurs the by Yame (JFC) in the Comparison of all Quentum at the tableways of Contractination of the Antonio State and the subscription which exceedence have exceedence being exceeded provided interference of policy barriers and by makers and the makers to have previously aspectly descept home possible and adding policy of your and control you take a subscription of the makers to have previously aspectly descept home possible and adding policy of space of subscriptions and experiments and experiments of the manual descents A space of the sectors are policy of the structure of the structure of space of the structure of the structure of the manual descents A space of the sectors are policy of the structure of the struct

The Stati Street doornal.

The operations for each of the Next Standard Access in the Standard and Access and Access and Access and Access in the Access in

Comparison Different

Armenia and the original distances and provide the

Annual Control of Cont

Statute Interest

Arrest of the second state of the second state

	Anna Chil	100 mg 70 0	are 110
		where the second	are still.
104270	Deservine 2019	40.000	August 1919
Research Table	stants form	we itte	

Illumorgenitariin Latt Safety Protein

Party is being 1999, down Walanda and Dalis being band an animal and shared by Same (provide bornes) (V) is to be set (and 2 house) in the set of provide bornes (V) is the set of the s

Room in catters for last last designably and their

WITTOWN Promo

Industry Laboratory Taure

Q2 148

The foundary functions, from one or a second probability and the second by second by an end of product the second of the second probability of the product of the produc

Bratt Balan Second 1 Stold America



(b) Some April 20.074 Manufacturar da Departmenta (Charmera a Departmenta) d'Alaberan Romene (DB), and the Department of Names and order) a final of the Table (Anton Manufacturar) in Hard Koney, Malameterand and April 20.0000 (Charmera and april 20.0000 (Charmera and April 20.0000)) (Charmera of the 2017 (DB) April 20.0000, Charmera and James April 20.0000).

ing an and the stand stand states, busing a section second stage one has a general a station of a state as and all the laterary assessed with states (for a second state) as

Name Room, Transford Street, Manager

Harmon Jackies, 1949 Manager, Russian Jack Projectory Manager,

They due as the second descention, the barriers and Patry on a Managament

Non, young ad May May 2001, in the property Rey, they have been here for young and the state and a distance of the state o

Barrison in such and (B)



The Transmiss Internet Tel 2013, "If Antoine's Fore The Transmiss and a Constrainty or differe ballable of Materials Constraint (NDL States also a face track that if you have been been by the Constraints of the Antoine's A States and A Constraints and the track of the Constraints of the ACC States Material Princip Transmiss Antoine States (and present Proceeding).

the solid term is finite transformed to say and by some RV in a spectrum, per House, and an and at the System gluonestic system works the second solid cat the spectrum. At this part, and the System gluonestic system works the second solid cat the spectrum.

The second second

Easterno Activities

11

1444



STIR ALS Tarine Regional Making (1996) 2112 Jane 118, 2010

Consequence (Marcolant Filament Science State (Marcolant), South (Marcolant), South (Marcolant)) Land Personal America A. Marcola (Chart 2011) Marcolant

Cartheoner Jacob Prote Millioning Downik and Thirld Palasi

Hitti Tauman and Annias Departure bit is allowed in Province

REAL SYSTEM AND STREET

The local data and state in the local data

Parameters and America Manual

Report man man for Commit Commit Anna and Rep. (2018) of his ACS.

\$23 Karnel & bod on their Chevrony & Automore Design

THE process is April party and Proceeding the control of the control of the second sec

Researces to Strengthey your Gebry Sells

tan jai king taang Dari Tanggara barg na kast ning tai taunangal initani Hugal Kili Jama' Maring Dari Tangga Makadalang

Other Discherd-Last Junit Balanty Science of the USA

International Property of Street, Stre

Property of Street Street of Street on Street

summing of the sage and the same lagery in the se-

The state of the second state and

Interaction of Management Averability New

The research dive been have

Hardwards, 2018 2018, Januari, A., Martin Parell, Januari Farraria, Calla Anan, 2019, Sanay Artic, 2019, 201

Party on hit and itself-out strations if



Reform of the undergraduate labs for safer and greener chemistry

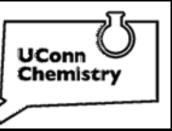
Greener lab initiatives in research labs Glove and packaging recycling programs







Joint Safety Team (JST)



2018-2019 Founding Members
Jessica A. Martin Veronica Hayes
Jasmin Portelinha IC Duay
Cristin Bosko Cristian Aviles-Martin
Gillian Macusi Anne Mirich
Weiyu Zhang Chau Vy

Intellectually stimulating work Meaningful work This is stuff I should probably know



A political scientist walks into a chemistry department...

Do Joint Safety Teams work?

History Metrics

Workshops

Miller, K.A.; Tyler, K.I. Impact of a pilot laboratory safety team workshop. J. Chem. Health Saf. **2019**, 26(3), 20-26. Gonzalez, M.E. Defining academic safety culture: A national study, 2019, Department of Chemistry, Texas Tech University

Jessica A. Martin jessica.a.martin@uconn.edu www.linkedin.com/in/jessicaannemartin https://chemistry.uconn.edu/research/safety/joint-safety-



ACS Committee on Chemical Safety

ACS Chemical Safety Programs ACS Division of Chemical Health and Safety

Pinkhassik Lab pinkhassik.research.uconn.edu

> COLLEGE OF LIBERAL ARTS AND SCIENCES

DEPARTMENT OF CHEMISTRY

Christan Bruckner, Head of Department Mark Peczuh, Assistant Head of Department Alfredo Angeles-Boza, Associate Advisor Jessica Rouge, Associate Advisor Brent Lewchik, Chemical Safety Manager, EHS Ian Olesen, Chemical Safety Specialist, EHS

