

Small Chem Biz

Division of Small Chemical Businesses
American Chemical Society



August 2019

Volume 49, Issue 2

UPCOMING REGIONAL MEETINGS

October 16-19, 2019
Midwest Regional Meeting (MWRM)
Wichita, KS

October 20-24, 2019
Southeastern Regional Meeting (SERMACS)
Savannah, GA

November 13-16, 2019
Rocky Mountain/
Southwest Regional Meeting (RMRM/SWRM)
El Paso, TX

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MESSAGE FROM THE CHAIR

Peter C. Lauro



Dear Division Members:

This will be my final "Message from the Chair" as my term as Chair of the Division of Small Chemical Businesses (SCHB) will end on December 31, 2019, at which time I will pass the baton to Chair Elect George Ruger. Rest assured that SCHB will be in very capable hands with George and I know the membership will enjoy working and interacting with him!

As we look forward to the 258th National Meeting of the American Chemical Society (ACS) from August 25-August 29, 2019 in San Diego, it has been another productive and exciting time at SCHB since the 257th National Meeting in Orlando late last March.

Some highlights include:

- Completion of an Innovative Program Grant (IPG) entitled "SCHB Member Development in the Green Chemistry Community", awarded to SCHB in Fall 2018 and lead by SCHB Program Committee Chair and Division Councillor Joe Sabol;
- SCHB submitted two proposals for IPGs:
 - "International Chemical Business Development Symposium at 2019 RMRM/SWRM," submitted by Joe Sabol.
 - "Stimulating Global Entrepreneurship by Process Chemistry: Forming a bond from C to Shining C", submitted by Mukund Chorghade, Ph.D., SCHB Chairman Emeritus and Alternate Division Councillor.
- The 72nd Annual Northwest Regional Meeting (NORM 2017) has been named a finalist for the ChemLuminary Award for Regional Meetings. NORM 2017 was organized by our own SCHB Executive Committee member Janet Bryant, who is currently Chair of the ACS Northwest Region. SCHB was a co-sponsor of NORM 2017.

Once again, SCHB has put together an interesting and informative program of presentations for the San Diego national meeting. Please read on below for more details. And don't forget to stop by the SCHB Booth on the Exhibition Floor, San Diego Convention Center, Halls D/E, at location #2438. We would love to have you assist us with staffing the SCHB Booth during the National Meeting – it's a great way for you to learn about the different ways you can engage and become involved with the SCHB. If you are interested in volunteering, contact Booth Chair Niteen Vaidya at expo-booth@acs-schb.org.

Also, please join us for the Industry Networking Reception, co-hosted by SCHB, on Monday, August 26th, from 6:30-8:00 P.M. Hilton Bayfront, Indigo Ballroom AE.

I encourage you to attend as many of the SCHB sessions and events as you are able and hope you are able to stop by the SCHB Reception and the SCHB Booth! In the meantime, SCHB election time is coming and WE WANT YOU! So please keep an eye out in the coming weeks for an SCHB eBlast with details about elections and volunteering.

Sincerely,
Peter C. Lauro, Esq.
SCHB CHAIR

August 25 - 29, 2019 | San Diego, CA

ACS National Meeting & Expo

Chemistry & Water

San Diego Scoop

*ACS 258th National Meeting
San Diego, August 25-29, 2019
Chemistry of Water*

SCHB activity in San Diego will be in the Hilton Bayfront (along with Governance) and the San Diego Convention Center. The online program and meeting planner are available at acs.org/meetings.

SCHB programming starts on Sunday night with the Chemical Business Poster Session, organized by George Ruger, from 6:00-8:00 P.M.

On Monday morning, join us for coffee at 7:30 A.M., sponsored by Saul Ewing, LLP, followed by “Liquid Assets: the Business of Water” from 8:00-11:45 A.M., organized by Vishnu Rajasekharan and Dawn Mason.

Monday afternoon, look forward to “Holistic Approaches to Sustainability in Chemical Businesses” from 1:00-5:00 P.M., organized by Jennifer Tanir and Allison Paradise.

Sci-Mix is Monday night from 8:00-10:00 P.M., and if you want to take a shift at SCHB’s “division row” poster, see the sign-up link at:

<https://www.signupgenius.com/go/10c044aaaab2baa8-schb2>

Tuesday starts with “Academic Entrepreneurship” organized by Mukund Chorghade, from 8:00-10:00 A.M.

SCHB “alpha-member” Gerry Meyer will turn 100 years old in November, and on Tuesday will be “Gerry Meyer: the first 100 years” with topics on Gerry’s research area of coal from 10:00-11:45 A.M., followed by a celebration of Gerry’s career from 1:00-4:00 P.M., organized by Bill Carroll and Jingbo Louise Liu. After the symposia, stay for cake and lemonade.

Other SCHB events to look out for include the Executive Committee meeting Saturday from 6:00-8:30 P.M., held in the Hilton Bayfront,

Aqua 310 A. The meeting is open and all are welcome.

Monday is the SCHB cosponsored Industry Networking Reception, 6:30-8:00 P.M., Hilton Bayfront, Indigo Ballroom AE.

SCHB is a finalist for a ChemLuminary Award. Please attend the reception 8:00-9:00 P.M. and ceremony 9:00-11:00 P.M. on Tuesday in Manchester Grand Hyatt, Harbor Ballroom A-F Foyer.

SCHB’s Expo Booth 2438 is open Sunday 5:30-7:30 P.M., Monday 9:00-5:00 P.M., and Tuesday 9:00-4:00 P.M. If you want to take a shift at SCHB’s expo booth, see the sign-up link at:

<https://www.signupgenius.com/go/10c044aaaab2baa8-schb2>

Stay tuned to our Facebook page for frequently updated content: fb.me/SCHBD and/or follow SCHB on Twitter [@ACSSCHB](https://twitter.com/ACSSCHB). Be sure to use #ACSSanDiego.

We look forward to meeting old friends and making new relationships in San Diego! ■

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Contact SCHB Chair Peter Lauro at www.acs-schb.org/contact-us/ to partner on entrepreneurial local section events and/or to collaborate with us on symposia at National/Regional Meetings.

SCHB Technical Programming

SUNDAY NIGHT**6:00 P.M. - 8:00 P.M.***Small Chemical Business
Poster Session**Convention Center
Exhibit Hall B*Innovation, entrepreneurship,
and SCHB. **G. Ruger et al.**Chemical Angel Network:
Chemical professionals
investing in chemistry
enabled businesses.**S. S. White**Marie Agan lab services:
Playing up our strengths.
M.L.F. Agan**MONDAY A.M.****8:00 A.M. - 11:40 A.M.***Liquid Assets: The Business
of Water**Hilton San Diego Bayfront
Indigo Ballroom H***8:00 A.M.** Introductory
Remarks. **V. Rajasekharan****8:05 A.M.** State of the water
industry: Bringing clarity
to complex water industry
issues. **B.S. Martin****8:30 A.M.** Changing what's
possible at the water-food-
energy nexus. **C. A. Martin****8:55 A.M.** Role of water
for industrial purposes.
C. McInnis**9:20 A.M.** Energy assessment
at industrial and municipal
wastewater treatment plants.
D. Ladner**9:45 A.M.** Intermission.**10:00 A.M.** Legal perspective
in water business. **K. Drake****10:25 A.M.** Decentralizedwastewater treatment:
Benefits and considerations
for sustainable water and
sanitation. **N. Mladenov****10:50 A.M.** Evolution of
access sensor technologies,
LLC and the on-target™
water test cards. **J. Hofstetter****11:15 A.M.** Aqusens: AI-
based lens-free platform
for automated identification
and characterization of
object/organisms in water.
M. Batalin**MONDAY P.M.****1:00 P.M. - 4:45 P.M.***Holistic Approaches to
Sustainability in Chemical
Businesses**Hilton San Diego Bayfront
Indigo Ballroom H***1:00 P.M.** Introductory
Remarks. **J. Tanir****1:05 P.M.** Building a culture
of sustainability through
science. **A. Paradise****1:30 P.M.** Getting closer to
holistic sustainability through
the lens of green chemistry.
S.K. van Bergen**1:55 P.M.** DOZN:
Quantitative green chemistry
evaluator. **E. Ponnusamy****2:20 P.M.** Green
nanomaterials: Journey
from lab to manufacturing.
S.V. Patwardhan**2:45 P.M.** Intermission.**3:05 P.M.** IP strategies for
green and sustainability
technologies. **S.K. Cyr****3:30 P.M.** Driving to greener
lab operations in a fast
paced renewable chemicals
business. **G. Goldsby****3:55 P.M.** Creating a
sustainable chemical
enterprise from corporateculture through to RD&D
(research, development, and
deployment). **C.T Hunt****4:20 P.M.** Reducing the
environmental impact
of plastic biotechnology
devices: Improvements in
design, manufacturing, and
energy sourcing. **S. Weitze****MONDAY NIGHT****8:00 P.M. - 10:00 P.M.***Sci-Mix**Convention Center
Exhibit Hall B*Chemical Angel Network:
Chemical professionals
investing in chemistry
enabled businesses.**S. S. White**Marie Agan lab services:
Playing up to our strengths.
M.L.F. AganAqusens: AI-based
lens-free platform for
automated identification and
characterization of micro-
object/organisms in water.
M. BatalinAdvancing innovation &
entrepreneurship education
for STEM students.
R.M. Kuffner**TUESDAY A.M.****8:00 A.M. - 9:40 A.M.***Academic Entrepreneurship
Hilton San Diego Bayfront
Indigo Ballroom H***8:00 A.M.** Introductory
Remarks. **M. Chorghade****8:15** Analysis of university-
based startup companies in
the chemical space.**D.G. Mackanic****9:05** Advancing innovation

& entrepreneurship education for STEM students.

R.M. Kuffner

9:30 Concluding remarks.
M. Chorghade

TUESDAY A.M.

10:00 A.M.- 11:50 A.M.

Gerry Meyer: The First 100 Years

*Hilton San Diego Bayfront
Indigo Ballroom H*

10:00 A.M. Introductory Remarks. **J. Liu**

10:05 CO₂ utilization via carbon mineralization and enhanced extraction of alkaline metals and rare earth elements from unconventional resources.

A.H.A. Park

10:30 Metal derivative reaction engineering: Gateway to novel energy conversion technology.

L.S. Fan

10:55 Shape-selective synthesis of value-added chemicals from coal-derived polyaromatic hydrocarbons.

C. Song

11:20 Ionic liquid processing of Wyoming coal for acid-free rare earth element extraction.

K.R. Di Bona

11:45 Concluding remarks.

J. Liu

WEDNESDAY P.M.

1:15 P.M.- 4:10 P.M.

Gerry Meyer: The First 100 Years

*Hilton San Diego Bayfront
Indigo Ballroom H*

1:15 P.M. Introductory Remarks. **W. Carroll**

1:20 Gerry Meyer: Legacy of the nineteenth-century pioneers to the territory of

New Mexico. **M.Z. Hoffman**

1:40 Introducing centenarian Gerry Meyer. **J.V. Thomas**

2:00 Gerry Meyer joins an elite group, the Centennial Chemists Club (CCC): Report on its achievements.
N.D. Heindel

2:20 Gerry Meyer: Professional, scientist, educator, leader, outstanding volunteer, mentor, and friend.
E.A.F. Nalley

2:40 Intermission.

2:55 Gerry Meyer: American Institute of Chemists (AIC) Giant. **D.M. Manuta**

3:15 Gerry Meyer at 100: The man, the regional myth, the legend. **J. Bryant**

3:35 Gerry Meyer and Sigma Xi. **J.E. Sabol**

3:55 Rebuttal. **E.G. Meyer**

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Be sure to use #ACSSanDiego!

www.acs-schb.org



CHEMISTRY & WATER

AMERICAN CHEMICAL SOCIETY FALL 2019 NATIONAL MEETING & EXPO

Division of Small Chemical Businesses SCHB Technical Program



Sunday, August 25

6:00 - 8:00 PM Chemical Business Poster Session

Monday, August 26

8:00 AM - 12:00 PM Liquid Assets: the Business of Water

1:00 - 5:00 PM Holistic Approaches to Sustainability in Chemical Businesses

6:30 - 8:00 PM Reception, with Corporation Associates and Industry Member Partners
Sci-Mix

8:00 - 10:00 PM

Tuesday, August 27

8:00 - 10:00 AM Academic Entrepreneurship

10:00 - 12:00 PM Gerry Meyer: the first 100 years

1:15 - 5:00 PM Gerry Meyer: the first 100 years

www.acs-schb.org

REGIONAL MEETING REPORT 2019

SCHB Program Committee

SCHB has four 2019 regional meetings in the books, and more to come. Look for photos and reports elsewhere in this newsletter.

Entrepreneurs Tool Kit at 43rd Great Lakes Regional Meeting (GLRM), May 1-4, Lisle IL, www.2019acsglrm.org

Entrepreneurs Tool Kit at 50th Central Regional Meeting (CERM), June 4-8, Midland MI, www.acscerm2019.org

Innovation Monday and Entrepreneurs Tool Kit at 74th Northwest Regional Meeting (NORM), June 16-19, Portland OR, www.norm2019.org

Entrepreneurs Tool Kit at Northeast Regional Meeting (NERM), June 23-26, Saratoga Springs NY, www.acsnerm.org

SCHB is organizing Entrepreneurs Toolkit at 71st Southeast Regional Meeting (SERMACS), October 20-23, Savannah GA www.sermacs2019.org and International Chemical Business Development at joint Rocky Mountain-Southwest Regional Meeting (RMRM/SWRM), November 13-16 in El Paso TX, www.swrm.org

Stay tuned to our Facebook page for frequently updated content: fb.me/SCHBD and/or follow SCHB on Twitter @ACSSCHB. We hope to see you at a Regional Meeting!

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SCHB speakers at CERM 2019
L to R: Dave Bell, Kristi Kozubal, Rick Learman, Joe Affholter, David Manuta.



SCHB speakers at GLRM 2019
L to R: Randy Micheletti, David Jarvis, Joe Sabol, Maryellen Giger; not pictured: Ute Westphal.

Jennifer Y. Tanir, Ph.D. **TOWARD SAFER LLC**
Founder

jentanir@towardsafer.com
Washington, DC
www.towardsafer.com

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Chemical Angel Network

The Angel Network for early stage chemical businesses

Mark Vreeke mark.vreeke@chemicalangels.com
Sid White sid.white@chemicalangels.com
Judith Giordan judy@giordan.com

www.ChemicalAngels.com

SCHB goes Green!

SCHB was at the 23rd *Green Chemistry & Engineering Conference*, themed “Closing the Loop” from June 11th-13th in Reston VA. For more information, see:

<http://www.gcande.org/>

SCHB had an expo table, a poster, and was a cosponsor of:

Carbon Dioxide: Closing the Loop on the Ultimate Raw Material

Leveraging Partnerships in Start-ups and SMEs

Entrepreneurs Driving the Circular Economy - Opportunities and Challenges.



Green Chemistry & Engineering Conference 2019
George Ruger



SCHB at NERM 2019

L to R: Ann Anderson, Marie Agan, Kathleen Schulz, Cal Trepagnier, George Ruger.



“Stories from the Front” Symposium at NORM 2019

L to R: J. Giordan, A. Brown, J. Amador, N. Day, J. Bryant.



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CONTACT THE SCHB EXECUTIVE COMMITTEE

To contact anyone on the executive committee, please use

<http://acs-schb.org/contact-us/>

San Diego Governance

Town Hall Meeting for candidates for Director-at-Large (2020-2022) will be held Sunday, August 25, 4:30-5:30 P.M., Hilton Bayfront Hotel, Sapphire Ballroom C/D. Questions may be submitted in advance to nomelect@acs.org.

Meet the candidates for ACS President-Elect 2020, H. N. Cheng and Carol A. Duane, Monday, August 26, 1:00-4:00 P.M., near the ACS Booth in the Exposition, San Diego Convention Center, Exhibit Halls D&E.

Candidates for ACS President-Elect and ACS 2020 President Luis Echegoyen will each make presentations at SCHB's Executive Committee meeting on Saturday, August 24th starting at 6:00 P.M.

Council will convene in San Diego on Wednesday, August 28, 8:00 A.M. The meeting is open and visitors are welcome.

Council action will include:

Election of five nominees to Council Policy Committee (CPC).

Election of five nominees to Committee on Committees (ConC).

Election of five nominees to Committee on Nominations and Elections (N&E).

ConC will seek Council approval on a recommendation for the continuance of the Committees on International Activities (IAC) and Professional Training (CPT).

N&E will seek Council approval to move Pittsburgh Local Section from District II to District III. (The total membership in District III is below the permissible minimum and this move will bring both Districts II and III into the permissible range.)

Council will be asked to approve the updated Chemical Professional's Code of Conduct.

Council will be asked to approve a new International Chemical Sciences Chapter, The Georgia International Chemical Sciences Chapter, which will consist of the territory of the republic of Georgia.

Full details of reports to council and other business are at:

<https://www.acs.org/content/dam/acsorg/about/governance/councilors/council-agenda-8-19.pdf>

If you have any views on the above matters, you may send them via:

<http://acs-schb.org/contact-us/>

Joe Sabol

SCHB Councilor

Mukund Chorghade

SCHB Alternate Councilor



MEET THE CANDIDATES
for
ACS PRESIDENT-ELECT 2020




H. N. CHENG CAROL A. DUANE

Monday, August 26, 2019
1:00 - 4:00 PM
Located near the ACS Booth
ACS EXPOSITION
San Diego Convention Center
Exhibit Halls D&E

Sponsored by the
COMMITTEE ON NOMINATIONS AND ELECTIONS

PHILADELPHIA PREVIEW

ACS 259th National Meeting
Philadelphia, March 22-26, 2020

*Macromolecular Chemistry:
The Second Century*

SCHB is planning a great technical program in Philadelphia, including:

Bridging the Divide Between the Fine Arts and Science (Mark Golden)

Competitive Business Climate (Joe Sabol)

Start-up and Growing Businesses in the Polymer Sector (Dennis Ostrovsky)

Global Entrepreneurship and Jobs in the Chemical Sector (Mukund Chorghade)

Chemical Business Poster Session (George Ruger)

C&EN 10 Start-ups To Watch (Melody Bomgardner)

Abstract submission opens on August 12th, and closes October 14, 2019. The preliminary program will be released on January 20, 2020.

Stay tuned to our Facebook page for frequently updated content: [fb.me/SCHBD](https://www.facebook.com/SCHBD) and/or follow SCHB on Twitter @ACSSCHB.

See you in Philadelphia! ■

VOLUNTEER WITH SCHB

None of SCHB's valuable benefits and activities would have been possible without volunteers like you. If you want to expand your professional network, enhance your leadership skills, or shape the future of SCHB, consider volunteering in a more active role to further SCHB's mission.

Potential roles include Webmaster Assistant, Sponsors Development, Membership Support, Graphic Designer, Assistant Newsletter Editor, or any other ideas you have. Contact any SCHB officer to learn more.

Find out more about SCHB!

To find out more about SCHB, membership benefits, events, and how you can contribute, visit the SCHB websites:

<http://acs-schb.org/>

<https://schb.sites.acs.org/>

Listen to Jennifer Maclachlan talk about how SCHB is the home for entrepreneurs in ACS - chemists and not:

<https://youtu.be/YxCHgwfOvSg>

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\$75	¼ page	3.5 x 4.5 in.
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Contact Newsletter Editor
Rajeev Chorghade:

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CHEMISTRY
& WATER

AMERICAN CHEMICAL SOCIETY
FALL 2019 NATIONAL MEETING & EXPO

AUGUST 25-29
2019
SAN DIEGO, CA

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Contact Booth Chair, Niteen Vaidya www.acs-schb.org/contact-us/

Visit SCHB officers and volunteers at Booth #2438 at the Expo from Sunday to Tuesday!

San Diego Convention Center, Halls D/E

Sunday: 5:30 P.M. to 7:30 P.M.

Monday: 9:00 A.M-5:00 P.M.

Tuesday: 9:00 A.M-4:00 P.M

The small business booth row in San Diego will feature (booth number):

2412	Grestel, Inc.	2430	STP America Research
2413	X-Ability Co. Ltd.	2431	Asha Pharma, LLC.
2414	MP Biomedical	2432	Kasviex, Inc.
2415	J & W Pharmlab, LLC.	2433	Aldlab Chemicals, Inc.
2417	Viridischem, Inc.	2434	Photothermal Spectroscopy
2418	Jasco	2435	Lucknova, Inc.
2419	Chemrus, Inc.	2437	Apeiron Synthesis, Inc.
2421	Biotoools, Inc.	2438	ACS-SCHB
2423	PharmAgra, Inc.	2439	AgilBio Labs
2424	Nextron, Inc.	2440	Cannabis Chemistry
2426	Charles River	2441	Hidden Isochema, Ltd.
2427	PurePEG		

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To join SCHB, contact ACS Member Services or contact SCHB Membership Chair. Join today:

www.acs-schb.org/contact-us/

Membership is FREE for the first year for ACS Members!

FUTURE NATIONAL MEETINGS**259th ACS Meeting**

Philadelphia, PA

March 22-26, 2020

Macromolecular Chemistry: The Second Century

260th ACS Meeting

San Francisco, CA

August 23-27, 2020

Chemistry from Bench to Market

261st ACS Meeting

San Antonio, TX

March 21-25, 2021

Bonding through Chemistry

262nd ACS Meeting

Atlanta, GA

August 22-26, 2021

Resilience of Chemistry

SCHB PATRON MEMBERS

Thank you to all of the **SCHB Patrons**, who as corporate members wish to foster the Division's objectives to aid in the formation, development, and growth of small chemical businesses.

Corporations or organizations wishing to become Patron Members are those that wish to foster the Division's objectives as defined in the SCHB Bylaws II, Section 3. These objectives include the following:

- To aid in the formation, development, and growth of small chemical businesses.
- To address the legal, social, educational, legislative, regulatory, and economic needs of self-employed chemists and ACS members who are employed by small chemical businesses.
- To encourage, promote, and organize personal interaction among members of the Division and other chemists, institutions, or organizations interested in the promotion of free enterprise among chemists.
- To serve as a clearinghouse for information about services available to members engaged in or planning to start small chemical businesses.
- To provide liaison between small chemical businesses needing part-time employees and chemistry students needing income and experience.
- To provide the expertise and experience of its members to the SOCIETY and for the betterment of the public.

Hats off to our Patrons and Sponsors of SCHB events, and their Liaison Members.

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Annual Dues: • Patron \$200.

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Annual dues for Patron Members are \$200. An alternate way to be a Patron Member is to Sponsor an event at an upcoming ACS National Meeting at the \$500, \$1,000, or \$1,500 level. Ask any SCHB Officer on how your organization can qualify for Patron Membership. Pay Now via Credit Card (<http://acs-schb.org/patron-membership/>), or (preferably) ask for an invoice by emailing SCHB Treasurer David Deutsch (at treasurer@acs-schb.org), and pay via check. Further details at: <http://acs-schb.org/patron-membership>

CURRENT SCHB PATRON MEMBERS

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Liaison Member:
Krishna Kodukula

• **CiVentiChem, LLC.**

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Bhaskar Venepalli

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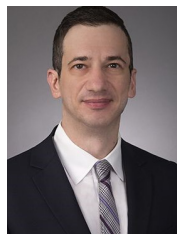
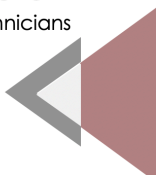
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