

FEBRUARY 2023

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SCIENCE CAFÉ: CELEBRATING 75 YEARS



THE RICHLAND SECTION TURNS 75!

The story of the Richland Section is in many ways the story of the Hanford Project. Chemist Roger James, shown at left working in the 222-S Laboratory in November, 1954, harkens back to those days.

Long time Richland Section member Dr. Sam Bryan will describe some of the amazing and amusing stories of the Richland Section at his upcoming talk entitled *"Eight Decades of Activity Within the Richland Section of the ACS"* as part of the Section's yearlong celebration of its founding in 1948.

Join us on **Tuesday, February 28 at 5:30pm at the Richland public library** for a stroll down chemistry's memory lane and the long lost labs of the past. It's going to be fun – click [here](#) for more info!

GREETINGS FROM NEW SECTION CHAIR Deepika Malhotra



I'm honored to serve as a Chair for the members of our professional society and to help advance our shared goals of fostering broader chemistry community connections.

Please join me in extending our heartfelt gratitude to the former board members of our local section for their unwavering commitment and service. Our past chair, Cristina Padilla, with her excellent guidance and unwavering dedication, navigated our section through the tough times. The diligent efforts and selfless contributions of our board members and volunteers have played a crucial role during challenging times of pandemic and in shaping the future of our section.

I am excited to announce that this year our Richland Local section is celebrating its 75th anniversary. To celebrate this milestone, we have planned a series of events focused on honoring our local section's rich history and commemorating

this anniversary. These events and activities are focused on engaging members by hosting meaningful conversations, providing networking opportunities and enhancing involvement of old and new members. As a Chair, my goal this year is to engage and connect with members in the hybrid environment and grow our local section's efforts on diversity, equity, inclusion, and respect (DEIR) by increased presence in the Tri-Cities community.

Our local section wants to provide a platform for valuable and purposeful experiences for each of our members, and I encourage you to get involved in as many ways as possible. If you have any ideas or suggestions for events or activities, please do not hesitate to reach out to me at deepika.malhotra@pnnl.gov or other members of the executive committee. We are here to serve you and to make this a successful and celebratory year for everyone. Please connect and volunteer with us to make a positive impact in our society. – **Deepika**



The 2022 year started auspiciously with three main goals: (1) Expand our efforts on diversity equity, inclusion, and respect (DEIR) by connecting with the Tri-Cities community, (2) Grow the strength of our collaborations with other ACS local sections, student chapters, and international chemical science chapters (ISCs) and (3) work towards

a program focusing on you (our members) in which you feel supported in doing your best work. We were able to achieve all these goals.

Diversity, Equity, Inclusion and Respect:

- The Minority Affairs Committee of the Richland Local Section had a very successful and impactful year. Energized by several new volunteers from underrepresented minorities, the Committee organized many events that reached a diverse audience within the section membership and the community at large. The Committee organized and held a “hands-on” chemistry event called “Química Bajo el Sol” / Chemistry Under the Sun on June 11th and 18th in Pasco. The goal was to show children in grades K-12 the importance and relevance of chemistry in our everyday lives, while also showing them the diverse opportunities in STEM fields. The event consisted of three activities: ice cream in a bag (concept of temperature), tie-dye t-shirts (concept of chemical bonding), and color changing slime (concept of thermochromics). Handouts were available, both in English and Spanish, so that students could continue the experiments at home. Section members were assisted in presenting the event by staff from the Mid-Columbia Library and the Pasco High School key club. The event was supported by a Diversity, Equity, Inclusion and Respect (DEIR) Grant from the ACS. The grant proposal was written by section member, Sonia Alcantar Anguiano, who led the project every step of the way. She and the Richland Section members who helped are certainly to be congratulated on a very well received event. We will continue our efforts in 2023, we got funded for our 2023 DEIR grant led by Dr. Shirmir Branch. Also, we will be collaborating with the Younger Chemists Committee (YCC) at ACS Puerto Rico with their funded “Arriba” DEIR grant.
- The Committee sponsored one virtual Science Café event celebrating a scientist from an underrepresented group, Dr. Deepika Malhotra presented her research on “Water-lean Solvents for Carbon Dioxide Capture”.

Grow the strength of our collaborations with other ACS local sections, student chapters, and international chemical science chapters:

- The ACS Richland local section collaborated in a series of seminars with ACS local section Puerto Rico, New York and

the International Chemical Sciences Chapter of the United Arab Emirates.

- Also, we collaborated in several events with our enthusiastic volunteers at the Eastern Oregon University Student Chapter. Also, we supported thirteen student members to attend the national meeting in San Diego, CA.
- We had 13 local students registered to participate in the 2022 ACS National Chemistry Olympiad Exam: 9 from Hanford High School, 3 from Richland High School, and 1 from Moses Lake High School. Thanks to Padmaja Gunda for spearheading this effort.
- Additionally, Deepika Malhotra submitted our 2022 ACS METT grant and was fully funded. She invested these funds on equipment to facilitate two Science Cafés in a hybrid format: “Making and Breaking Metal Hydride Bonds” by Dr. Morris Bullock and “Wine Chemistry” by Eric Hoppe.

Work towards a program focusing on you (our members) in which you feel supported in doing your best work:

- The 24th Annual ChemLuminary Awards ceremony took place in person at the Hyatt Regency Chicago on August 23. The Richland Section was finalist for the following awards: Most Innovative New Activity or Program and Best Overall Minority Affairs Committee. Our Local Section received the ChemLuminary award for ‘Best Overall Minority Affairs Committee’ for organizing many events that reached a diverse audience within the section membership and the community at large.
- The Membership Committee held a get-together for members and their guests on July 13th at Leslie Groves Park. Members had the chance to meet and renew acquaintances that have languished during the past few years of social distancing, as well as make new ones.
- Our local section organized a tour at the local Lamb Weston French-fry facility. Participants learned about Lamb Weston and its history, then tour the plant followed by fries tasting. Our host at Lamb Weston was William Kirkham. The group enjoyed the presentation by our host followed by Trivia content on French fries.
- We hosted our Annual Social event in person with live music, wine, and food. Our keynote speaker was Eric Hoppe who talked about “Wine Chemistry”. Also, we honored our 50- and 60- year ACS members and volunteers.
- The LS submitted one well-deserved LS chemist for selection as ACS fellow in 2022. We celebrated Dr. David Heldebrant selection by the ACS for induction in 2022. Dr. Heldebrant was recognized on the Battelle Inside Pacific Northwest National Laboratory news.

Thanks for contributing to a successful 2022. Sincerely,

– *Cristina Padilla*

2023 RICHLAND SECTION BUDGET FOR MEMBER INFORMATION



Sonia Alcantar,
Treasurer

Hello, Richland Section members! I would like to present to you the Section's 2023 budget, which has been approved by the executive board. The Section's major sources of

income are the annual allotment from the national ACS organization, reimbursement from the ACS for section Councilor travel, and local section dues. (Thank you for the voluntary \$5 contribution you make when paying your annual ACS dues!)

Noteworthy this year is an ACS "Diversity, Equity, Inclusion, and Respect" grant for \$2,120.

The expense side reflects the Section's desire to stay close to its mission of, as our by-laws say, "...the encouragement and advancement of chemistry in the broadest manner possible; the increase and dissemination of chemical knowledge; the promotion of scientific interests and inquiry; the stimulation of professional interests; and the fostering of public welfare and education of its members."

Of particular note is the \$6,500 (item 21b), to support the Section's community outreach.

Although the overall budget shows a deficit of \$14,155, the Section has adequate carryover funds from previous years to more than cover this expense.

Please contact me, Sonia Alcantar, Sonia.alcanaranguiano@pnnl.gov, if you have any comments and/or questions.

	2022 Final	2023 Proposed
REVENUES		
(1) Annual ACS Allotment (plus dues)*	\$8,290	\$8,335
(2) New member commissions	\$45	\$15
(3) Donations, contributions	\$0	\$0
3a) Bequests and/or trusts	\$0	\$0
(4) Rebate from ACS for Councilor travel expenses	\$1,903	\$2,000
(5) ACS Awards or Grants received (e.g., METT, IPG, ACS Inter-Chapter Relations Grant)	\$4,117	\$3,500
(6) Program revenue (short courses, lecture series etc.)	\$0	\$0
(7) Local section dues, affiliate dues	\$1,300	\$1,200
(8) Interest, dividends	\$33	\$50
(9) Special events and activities	\$0	\$0
(10) Meals (include total meals in revenue)	\$0	\$0
(11) Other revenue (describe and itemize)		
a) AIChE contribution to summer picnic	\$0	\$0
b) Early bird discount for leadership training	\$250	\$250
(12) TOTAL REVENUES	\$15,938	\$15,350
EXPENSES		
(13) Subsidies to subsections, topical groups, or affiliate groups	\$0	\$0
(14) Awards, scholarships, grants, etc.		
a) Travel awards/Registration for ACS student members	\$3,500	\$3,500
b) HS Teacher Grants	\$0	\$400
c) Outstanding Teacher Award	\$0	\$100
d) General Awards	\$440	\$605
e) Supplemental awards	\$103	\$200
(15) Administrative expenses (not including postage, printing, and shipping)	\$69	\$100
(16) Printing, publications, newsletters, meeting announcements, postage		
a) Newsletter	\$1,359	\$1,700
b) Public relations	\$0	\$200
c) Web update	\$65	\$200
d) Miscellaneous	\$57	\$75
(17) Local Meetings (include speakers' expenses)		
a) Speakers	\$0	\$300
b) ACS Picnic	\$255	\$300
c) ACS Annual social	\$2,945	\$3,500
d) Science Cafes	\$488	\$500
(18) Meals	\$0	\$200
(19) Travel subsidies to Councilors	\$1,792	\$2,000
(20) Travel subsidy and fee for Local Section Leadership Conference	\$4,892	\$2,300
(21) Other expenses (describe and itemize)		
a) K-12 outreach	\$745	\$750
b) Grant (METT, IPG, other ACS grants)*	\$5,636	\$6,500
c) NCW	\$416	\$500
d) Olympiad	\$305	\$750
e) Science Fair and award	\$508	\$650
f) Investigators of Science	\$600	\$600
g) Bridging the gap minigrant (communication equipment)	\$0	\$0
h) Diversity Affairs Committee	\$0	\$200
i) Boy/Girl Scouts Nuclear Science Merit Badge	\$0	\$75
j) Earth Day	\$21	\$200
k) Project SEED	\$0	\$0
l) Joint society meeting	\$0	\$100
n) Women Chemists Committee	\$0	\$600
o) Expanding Your Horizons	\$0	\$300
p) Government Affairs Committee	\$0	\$500
r) In kind support for WSU/CBC Chemistry Club	\$0	\$500
s) Environmental improvement committee	\$0	\$500
t) Chemical safety day	\$0	\$600
(22) TOTAL EXPENSES	\$24,196	\$29,505
(23) EXCESS (DEFICIT)	-\$8,258	-\$14,155

'23 OFFICERS & COUNCILORS

Meet your newly elected ACS Richland Section Officers and Councilors. They are volunteering their time and talents to help make this section inclusive for each and every member. Please help them in any way you can by volunteering your ideas and time to help our events succeed.



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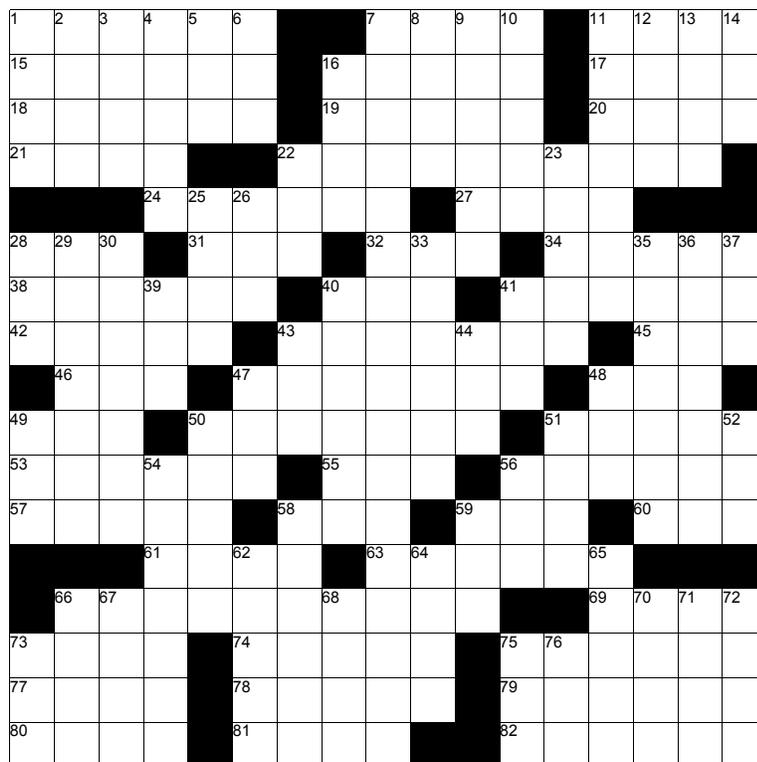
CROSSWORD PUZZLE - ON SECOND THOUGHT

ABOUT THE AUTHOR Robert Pike is a professor of chemistry at The College of William & Mary. He is an inorganic chemist with interests in Materials for Sensors and Catalysts, Metal-Organic Networks Chemistry, X-Ray Crystallography, and Chemistry Education, in addition to creating crossword puzzles.

On Second Thought... Robert D. Pike

ACROSS

1. Response
7. Nickname for Francisco
11. A "Friend"
15. Rough
16. Make butter
17. Nevada city and county
18. Fluids that govern personality?
19. Fragrant flowering shrub
20. Blood vessel
21. Tied
22. Nuclear reactions in a beaker?
24. A cool treat in Italy
27. Oolong and Darjeeling
28. Hoover or Aswan
31. Title in Spain
32. Eavesdrop
34. Allowable
38. Ear infection
40. Ha ha
41. Affix
42. Barrel component
43. Homo species
45. Famous VA family
46. Fit ___ fiddle
47. Occult science?
48. Take at gunpoint
49. Phone i.d. card
50. They support the team
51. Made out
53. Tough glossy paint
55. Taxing grp.
56. Fix an electrical device
57. Benefit
58. C&EN publishing Org.
59. Industrial tub
60. Movie-making techn.
61. Military color
63. Faked
66. Fire substance?
69. "The Thin Man" dog
73. A soft cheese
74. Word group with a specific meaning
75. Heavenly substance?
77. Cal. ____, San Luis Obispo univ.
78. 50's Comedian Bruce



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- | | | |
|----------------------------------|--|---------------------------------------|
| 79. Pilfers | 26. Spanish article | 54. Pieces with segues |
| 80. Backs of boats | 28. Windows precursor | 56. Old garment |
| 81. To be (Latin) | 29. Reaches a certain status | 58. Remains with |
| 82. Get ready to ride, with "up" | 30. Vapors that influence health? | 59. Delivery vehicle |
| | 33. Tool for pulling | 62. Quick of mind or body |
| | 35. Heat substance? | 64. Japanese toy maker |
| | 36. Lettuce that might sink a ship | 65. Checked the C-14 content |
| | 37. Popeye's middle name | 66. Faculty memb. |
| | 39. Federally-owned power corp. | 67. Sword handle |
| | 40. An alpha hydroxy acid | 68. Misdeeds |
| | 41. It doesn't matter which one | 70. Sport fish |
| | 43. ___-mo | 71. William, who had his own overture |
| | 44. From gamma to radiowaves (abbrev.) | 72. British slang for 75 down |
| | 47. 90s ISP | 73. Plastic additive of concern |
| | 48. Uncooked | 75. Balaam's talking conveyance |
| | 49. Irish, Coral, or Yellow | 76. Airport info. |
| | 50. Old-school | |
| | 51. Celebrate | |
| | 52. The Roman gods | |

DOWN

1. Hurt
2. New (Fr. abbrev.)
3. Identical
4. Possible 1 across outcome
5. Magnetic techn. used with radicals
6. ___ ipsa loquitur
7. Ultimate goal in 47 across?
8. ___ Lang Syne
9. Wily
10. At an opportune moment, with "right"
11. Consider again
12. Margarine
13. Scrape a knee
14. Boy child
16. Coagulate
22. It's called "tin", but is made of steel
23. Ionic compounds
25. Ms. Falco of "The Sopranos"

FIND THE SOLUTION
AT ACSRICHLAND.ORG/NEWS

NATIONAL CHEMISTRY WEEK ACTIVITIES IN LA GRANDE



Richland Section members based in La Grande celebrated **National Chemistry Week (NCW)** with several events, including a large outreach at the local Saturday market, participating in the live **ChemClash** game organized by ACS, organizing **Investigators of Science** (previously Girls in Science), which was expanded to include students of all genders, and attending **Festival of Trees**, a large a community fair organized by the Soroptimists International. Many of the hands-on activities offered revolved around the NCW theme **"Fabulous Fibers: The Chemistry of Fabrics!"**. We estimate that over 500 children and their families were reached by these activities. At each

event participants received copies of **Celebrating Chemistry in English and Spanish** and other NCW giveaways. All the activities were made possible with help from many volunteers including **Eastern Oregon University STEM faculty, student clubs and community volunteers**. The **Northeast Oregon Area Health Education Center (NEOAHEC)** played a major role assisting with advertisement, registration, designing and producing the t-shirts and arranging for all logistics for the **Investigators of Science**. In addition to our local section, **Soroptimists International** provided monetary support.

68TH ANNUAL
MID-COLUMBIA
SCIENCE FAIR

CALL
FOR
SCIENCE
FAIR
JUDGES
MARCH 9

The 2023 Mid-Columbia Science Fair, now in its 68th year, is back "in-person"! The Richland Section is a major supporter of the fair, and will be presenting awards for the best chemistry related projects. There are **two ways to help** as a judge. First of all, you can sign up with the science fair organization to judge projects in general at the organization's website, <https://midcolumbiasciencefair.org/2023/01/16/judge-registration-now-open/>

Or, you can join the team the Richland Section is putting together just to judge the chemistry related projects. Judging is on March 9th. If you would like to help with that effort, please contact Mariefel Olarte, email: mariefel.olarte@pnnl.gov.

MEMBER RECOGNITION EVENT A SUCCESS

Richland Section's fall **Member Recognition Social**, held at the Richland Community Center, was well attended with around 50 attendees and four joining us online. We had great food and conversations over a glass of wine. Our Speaker, Eric Hoppe, gave a wonderful presentation sharing his career path at PNNL and his love for wine. He also shared interesting facts about wine and the chemistry behind it. Congratulations to the Members who were recognized for their contributions to ACS!



There is a healthy debate among scientists about which discipline can provide the best tools for solving key societal problems.

This cartoon pokes fun at the sometimes contentious relationship between chemists and biologists. Chemists are often the inventors and early developers of materials and techniques that drive biotechnology.

Is this area (arguably biology's most useful side) then really just chemistry in disguise? Can chemists lay claim to the most impactful discoveries within it?

Whether you'd argue yes or no to these questions, it could be the biology community that gets the last laugh.

Another clue in the man's crossword puzzle: "A biologist who has made seminal discoveries in his or her field, perhaps (4 words)." The answer: N-O-B-E-L-L-A-U-R-E-A-T-E-I-N-C-H-E-M-I-S-T-R-Y.

–Chad Mirkin, Northwestern

UPCOMING EVENTS

FEBRUARY 28 [Click here for More Info](#)
**SCIENCE CAFE CELEBRATING 75 YEARS:
THE RICHLAND SECTION HISTORY & ACTIVITIES**
5:30PM, RICHLAND LIBRARY, 955 NORTHGATE DR.

MARCH 9
MID-COLUMBIA SCIENCE FAIR JUDGING
Contact Mariefel Olarte to volunteer: mariefel.olarte@pnnl.gov

POINT TO PONDER

The trouble with quotes on the internet is that it's difficult to determine whether or not they are genuine.

– Abe Lincoln

LEARN MORE ONLINE <https://acsrichland.org>