

Welcome. We're so glad you're joining organizations from across the country to host *Let's Do Chemistry* events. This kit is designed to help museum and scientist partners engage public audiences in hands-on activities that increase positive attitudes toward learning about chemistry.

PHYSICAL KIT CONTENTS

Enclosed, you'll find a list of the materials contained in your kit. *The Explore Science: Let's Do Chemistry* kits were developed together by museum professionals and researchers to increase public audience *interest, sense of relevance, and feelings of self-efficacy* in connection with learning about chemistry. The physical kit includes all the materials you'll need to host an event including, hands-on activities, educational posters, a planning and partnership guide, safety equipment, a safety guide, a research-to-practice guide about the project, a training overview and activities for staff and volunteers, and promotional materials. We've also included Spanish translations for all of the public educational materials, plus a bilingual promotional banner.

MUSEUM-SCIENTIST COLLABORATIONS

The National Science Foundation has funded the National Informal STEM Education Network (NISE Net), to work on this project with the American Chemical Society (ACS) to support public engagement with chemistry by both scientists and museum educators. Chemistry is the least represented of the major science fields in science museums and other informal science educational media, and is often considered by the public to be intimidating and inaccessible. This project is aimed at changing that by putting tested educational resources in the hands of talented and enthusiastic museum educators and scientists. We strongly encourage collaboration between museums, local chemists, and chemistry students to support the American Chemical Society's National Chemistry Week and similar events this year, and into the future.

ADDITIONAL MATERIALS ONLINE

All of the *Let's Do Chemistry* kit materials are available online. You can download these individually or as a complete digital kit from <http://www.nisenet.org/chemistry-kit>. The website also has many other resources you can use for your *Let's Do Chemistry* programs, including links to all of our educational programs, media, and training videos. You can also learn more about upcoming and archived online workshops at <http://www.nisenet.org/events/online-workshop>.

REPORTING & EVALUATION

As a part of your *Let's Do Chemistry* event, we are seeking feedback and information from two audiences: you, our host institutions, and those who facilitate the activities during your event.

Host Institutions: Each organization that receives a physical kit is required to fill out a simple report about their event by **December 15, 2018**. You will receive additional information about this report by email this fall. As a part of this report, our evaluators may ask additional questions about the *Let's Do Chemistry* products to learn about your experience using them, and to contribute to the project research.

Activity Facilitators: We are looking to gather data from your activity facilitators about their experiences using the activities with visitors. To facilitate this data collection, we request that you to ask your facilitators, 18 and over, if they would be willing to share their email addresses with us so that we can send them an online survey. There is an email sign-up sheet included in your kit. We will ask you to share these email addresses with us through your toolkit report.

If you have any questions about the evaluation, please contact Liz Kollmann (ekollmann@mos.org). We greatly appreciate your help and feedback.

Thank you for all your efforts to engage the public in activities about chemistry to increase their *interest, sense of relevance, and feelings of self-efficacy*. We look forward to learning about how you use the kit!

Let's Do Chemistry Kit Contents

PRINTED MATERIALS

Planning and Promotional Materials

- Welcome letter and list of kit contents **Box 1** and **Box 2**
- Facilitator email collection sheet **Box 1**
- *Let's Do Chemistry Planning and Partnership Guide* (including promotional materials) **Box 1**
- Large promotional banner **Box 1** *Spanish!*
- Public Posters **Box 1** *Spanish!*
- Photo release form **Box 1**
- Temporary tattoos **Box 1**
- Table cloths **Box 2**
- USB flash drive with digital kit **Box 1**

Safety, Professional Development, and Training Materials

- *Let's Do Chemistry Safety Guide* **Box 1**
- Label kit **Box 1**
- Safety goggles (kid and adult sizes) **Box 1**
- Goggle wipes **Box 1**
- Gloves (small and large sizes) **Box 1**
- *Let's Do Chemistry: A Framework and Strategies to Encourage Positive Attitudes Toward Learning Chemistry in Museums and Informal Settings* **Box 1**
- *Let's Do Chemistry Event Training and Overview* presentation notes **Box 1**
- *Atoms to Atoms* training guide and materials **Box 1** *Spanish!*
- *Gum and Chocolate* training guide and materials **Box 1**
- *What's in the Box?* Improv guide **Box 1**
- *Tips for Leading Hands-on Chemistry Activities* **Box 1** and **Box 2**
- *ACS Inquiry in Action* and *Best of WonderScience* books **Box 1**
- Activity facilitator guides **Box 2**

Hands-on Chemistry Activities (with supplies for 100 participants) **Box 2**

- *Build a Battery* *Spanish!*
- *Cleaning Oil Spills with Chemistry* (longer program)
- *Chemistry is Colorful* *Spanish!*
- *Chemistry Makes Scents* *Spanish!*
- *Molecules in Motion* *Spanish!*
- *Nature of Dye* *Spanish!*
- *Rocket Reactions* *Spanish!*
- *Sublimation Bubbles* *Spanish!*
- *What's in the Water* *Spanish!*

LET'S DO CHEMISTRY DIGITAL KIT (ON USB FLASH DRIVE & ONLINE)

www.nisenet.org/chemistry-kit

Planning and Promotional Materials

- Digital files of all planning and promotional materials including customizable press release, public posters, photos, ads, and banners

Safety, Professional Development, and Training Materials

- Digital files of all safety, PD, and training materials guidebooks, presentation slides, and digital copies of all activity training guides and graphics
- Training Videos included in your kit and online: <https://vimeo.com/nisenet/explore-science-lets-do-chemistry-training-films>
 - *Chem-Attitudes with Dr. Braxton Hazleby* facilitation training video
 - Training videos for each hands-on activity

Hands-on Chemistry Activities

- Digital copies of all activity guides, graphics, and educational materials **Spanish!**



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