



American Chemical Society
Volume 30, Number 12

The San Diego Chemist

San Diego Section
December 2018

Annual Meeting and Holiday Party

DATE: Tuesday, December 4, 2018

TIME: 5:30 PM Social Hour

6:30 PM Buffet Dinner

7:30 PM Presentations

PLACE: Sufi Mediterranean Cuisine
5915 Balboa Avenue, San Diego

PRICE: \$20.00 per Dinner - \$10.00 with student I.D.

RSVP: Monday, December 3, 2018

<https://sdacs2018holidayparty.eventbrite.com>



Jennifer Barber-Singh
2018 Chair



David Wallace
2019 Co-Chair

If you are unable to register online, please use voice mail: 619-687-5570

Join us for our last big event in 2018! Come meet the San Diego Section Executive Committee members and hear election results for new officers. **Jennifer Barber-Singh**, the 2018 Chair, will give the year-end wrap-up and **David Wallace**, Co-chair in 2019, will talk about upcoming events.

This is a great evening, not to be missed, to meet new colleagues and to get involved in SDACS activities!

Season's Greetings!

DECEMBER NOTES

Dear ACS Members,

By the time you read this, you probably have enjoyed a good Thanksgiving Holiday and are looking forward to the next holiday and the end of the year.

On October 27th we celebrated National Chemistry Week with our own ChemExpo. As before, it was a success. You can read all about it on pages 4 and 5.

Don't forget to register for our Annual Holiday Party at Sufi Mediterranean Cuisine on December 4th.

RSVP by: Monday, December 3, 2018

<https://sdacs2018holidayparty.eventbrite.com>

If you are unable to register online, please use voice mail: 1-619-687-5570.

You will hear about the election results for the Local Section. We do not recount votes. We will tell you about upcoming events in 2019. The next one will be on January 21st at the Claude "Bud" Lewis Carlsbad Desalination Plant in Carlsbad. Please register at <https://desalination2.eventbrite.com/>

There will be a change in our Executive Board next year. We will have two co-chairs, **Jennifer Barber-Singh** and **David Wallace**.

Please note our Executive Committee Meeting dates for 2019 at the bottom of the right column on this page.

Hope to see most of you on December 4th. Have a joyful Holiday Season!

Renate Valois for Jennifer Barber-Singh, 2018 Chair

San Diego Section of the American Chemical Society

E-mail: jbsingh@sandiegoacs.org

Web: www.sandiegoacs.org

NON-PROFIT ORGANIZATIONS!

Does your non-profit organization have an upcoming event that might be of interest to members of the ACS – San Diego Section? If so, please send your announcement to our 2018 Chair, **Jennifer Barber-Singh**, at jbsingh@sandiegoacs.org. Once approved, Jennifer will see that your announcement is published on our website (www.sandiegoacs.org) and, if received by the 20th of the month before the event, in *The San Diego Chemist* newsletter. This is a free service of the ACS – San Diego Section. Take advantage of it!

ATTENTION ADVERTISERS

Did you know that *The San Diego Chemist* is the only monthly e-newsletter that targets chemists and chemical engineers in San Diego and Imperial Counties? As soon as our newsletter is uploaded on www.sandiegoacs.org a separate notification is sent to the **2,500 members** of the ACS-San Diego Section, each potential customers for your products and services! **Quick turnaround:** Ad copy submitted by the 20th of each month will be published by the end of that month.

For more information, please contact:

Renate Valois at renate@sandiegoacs.org

THE SAN DIEGO CHEMIST, the official newsletter of the San Diego Section of the American Chemical Society, published on a monthly basis, can be viewed at <http://www.sandiegoacs.org/newsletter/>.

All contents are published at the discretion of the Section's Executive Committee. Events of interest to chemistry professionals in the community may be included in the events calendar as space permits and are subject to editing for brevity. Advertisements and announcements from the chemistry community are accepted at published rates. The deadline for items submitted is **the 23rd of the month** for publication by the end of that month.

Advertisers: Ad prices as of January 1, 2015:

Size (w x h) Number of Issues & Price/Issue

	1	3	6
2" x 3"	\$ 75	\$ 68	\$ 58
4.5" x 1.5"	\$ 80	\$ 74	\$ 67
4.5" x 4.75"	\$200	\$184	\$163
8.5" x 5.5"	\$400	\$360	\$310
full page	\$655	\$590	\$510

Discounts will be available for issues not shown

Please send your jpg to:

Renate Valois at renate@sandiegoacs.org.

SECTION E-MAIL LISTSERVER!

Get up-to-the-minute reminders of local events and develop dialogs with your fellow members!

To subscribe to our moderated listserver:

1. Send an e-mail with SUBSCRIBE TO LISTSERVER in the subject line, and your name and e-mail in the body of the message to **Ken Poggenburg** at jkp135@att.net.
2. If you receive a message from the postman, reply to confirm that you wish to be added to the list, otherwise it will not take effect.
3. You will receive reminders approx. 5-7 days prior to upcoming events and messages of general interest to members.
4. To post topics for discussion, or informational items to the listserver members, send the message to sandiego-chemist-l@ucsd.edu.
5. If the moderator approves the post, it will be sent to the members.

NOTE: That is the letter "l", not the number "one" following the word "chemist".

Executive Committee Meeting Dates 2019

6:00 – 8:00 pm

Thursday	January	3
Thursday	February	7
Thursday	March	7
Thursday	April	4
Thursday	May	2
Thursday	June	6
Thursday	July	11
Thursday	August	1
Thursday	September	5
Thursday	October	3
Thursday	November	7

Meetings will be held at:

9381 Judicial Drive, Suite 160, San Diego



The San Diego Section of the American Chemical Society would like to thank our Corporate Sponsors. Here are a few examples of our annual outreach programs that are made possible by their generous donations:

Mad Science - Stage demonstrations for 4th and 5th graders which make science fun for kids! Last year the program was viewed by over 8000 students in low-income areas and from military families.

ChemExpo - A science event for middle and high school students held annually for the past 28 years. It features live stage demonstrations and interactive booths that teach kids about applied science. Last year over 1000 local students participated!

EarthFair - We participate in the world's largest free annual environmental fair, held in Balboa Park.

BE A CHEMISTRY AMBASSADOR!

Volunteer Opportunities: Activities and ideas for getting involved in outreach. Explore to find activities that fit your interests and schedule! For more details, please see:

<https://www.acs.org/content/acs/en/volunteer/chemambassadors.html>

VOLUNTEER WITH KIDS & CHEMISTRY

For more details, please see: <http://www.acs.org/content/acs/en/education/outreach/kidschemistry.html>

ACS-Hach Programs

ACS-Hach Professional Development Grant

Funds professional development experiences for secondary chemistry teachers. Award Amount: Up to \$1,500

Application Period: ends January 4th

ACS-Hach Land Grant Teacher Scholarship

Provides financial support to obtain a chemistry undergraduate degree and chemistry teaching credentials at one of our 72 partner institutions. Award Amount: \$10,000 for full-time study

Application Period: Contact participating universities directly for application details

ACS-Hach Post-Baccalaureate Teacher Scholarship

Provides financial support for chemistry graduates with limited work experience to obtain a masters degree in education or teacher certification in chemistry. Award Amount: Up to \$6,000 for full-time study and up to \$3,000 for part-time study

Application Period: February 1st – April 1st

ACS-Hach Second Career Teacher Scholarship

Provides financial support for chemistry professionals to obtain a masters degree in education or teacher certification in chemistry.

Award Amount: Up to \$6,000 for full-time study and up to \$3,000 for part-time study

Application Period: February 1st – April 1st

About ACS-Hach Programs

The ACS-Hach Programs provide financial support for future and current high school chemistry teachers. [Learn more.](#)

Contact us: Email: hach@acs.org -- Phone: (800) 227-5558 ext. 8178

CHEMISTRY JUDGES NEEDED

Judging by professional societies at the 65th Annual Greater San Diego Science & Engineering Fair will take place on **Wednesday, March 13th, at 12:15 pm** in Balboa Park. If anyone is able to help choose exhibits for our Section's chemistry awards or wants more information, please contact **Ken Poggenburg** at jkp135@att.net.

CALL FOR VOLUNTEERS

EarthFair 2019

Sunday, April 28, 2019

Balboa Park • 10am - 5pm

ACS – San Diego Section volunteers will set up a table in the Children's Activity Area. This special area has crafts, games, face painting, storytelling, and hands-on activities for children of all ages. Activities are intended to educate, entertain and inspire youth, in the spirit of Earth Day.

Please contact **James Caldwell**, jcaldwell@sandiegoacs.org to volunteer on **Sunday, April 28, 2019**. We need 3-4 persons for each of the 3-4 hour shifts on April 28th. Please support us and share your care for our earth, chemistry education, and the San Diego ACS!

CHEM EXPO
31 Consecutive Years of National Chemistry Week Success
Saturday, October 27, 2018

National Chemistry Week, organized every year by the American Chemical Society, promotes the value of chemistry in everyday life. This year's theme was "Chemistry Is Out of This World".

Area chemists showed youngsters (and several parents) why chemistry is out of this world during our ChemExpo on Saturday October 27th. More than 500 San Diego area middle school and high school students, Girl and Boy Scouts participated.



Rocket in sky on campus grass



UV beads

Children learned about fluorescence – the release of visible light from absorbed UV radiation. UV-sensitive beads were applied at many demos. Participants made key chains, bracelets and learned how sunscreen can block the energy. Ultraviolet (UV) light – electromagnetic radiation with more energy than visible light – causes sunburns and eye damage and is responsible for much of the chemistry in our atmosphere. Organizers with the San Diego Section of the American Chemical Society focused on all the different types of gasses in the atmosphere.

Thanks go to the over 12 organizations that conducted hands-on experiments and demos, event programming, or helped manage event activities. The company and organization booths were run by San Diego Miramar Community College, Association of Women in Science, Hewlett Packard, Society for Women in Graduate Studies, California State University at Fullerton, Seacoast Science, San Diego Air Pollution Control District, Tioga Research and Shimadzu.



Shimadzu paper chromatography table



Seacoast Science GC chromatography table



AWIS demo table



San Diego Air Pollution Control District supports science-based programs that educate youth and families about the impacts of air pollution. They teach students about where air pollution comes from and ways to reduce it in San Diego County.

Student Chapters from all of the local four-year universities including University of San Diego, University of California at San Diego, California State University at San Marcos, San Diego State University, Point Loma Nazarene University, and Southwestern College all participated with a stage demo. The demonstrations were proven crowd-pleasers and illustrated important principles of chemistry.

Stage demo's this year included:

- UCSD- liquid nitrogen to simulate the atmospheres of Mars (dry ice in bag, dipped in liquid nitrogen) and Uranus/Neptune (balloon and flower dipped in LN₂). We saw the effects that CO₂ can have on an atmosphere and its effect on temperature on Venus.
- USD- a density tube demo (1+1 not 2) with ethanol and water along with visual aids of different sized candies in two grad cylinders to explain packing, etc., a soda can implosion with heat in cold water and an invisible ink (acid/base phenolphthalein) demo.
- CSUSM- screaming gummy bears, pop rocks demo.
- SWCC - and SDSU- a color-changing flame experiment with saturated salt solutions.



Stage demonstrations

The ChemExpo Committee would like to take this opportunity to thank everyone for their support of the NCW program. It took over 100 individuals working together to make this event a success!

Members of the ChemExpo organizing committee were: **Olga Fryszman**, **Namphol Sinkaset** and **Linda Woods** (Miramar Community College) and from the ACS San Diego Section Executive Committee: **Paul Bruinsma** and **Julann Miller**. San Diego ACS members who participated were: **James Caldwell**, **Graeme Freestone**, **Julann Miller**, **Ken Poggenburg**, **John Schindler**, **Jim Shih**, **Bill Tolley** and **Shannon Woodruff**.

31 Consecutive Years of National Chemistry Week Success. More resources and information about National Chemistry Week are available on the American Chemical Society's web page: www.acs.org.

In addition, this event would not be possible without the help of our partner, San Diego Miramar College Chemistry Department as our host.

Text: Julann Miller
Photo credits: Jim Shih

**SUMMARY OF THE SAN DIEGO SECTION
EXECUTIVE COMMITTEE MEETING MINUTES
November 1, 2018**

Treasurer's Report – Since last meeting: income - Section dues of \$5K, \$500 for Project SEED, \$700 receipts for Awards Banquet; expenses – \$600 plaques and awards, \$1,400 for ChemExpo; \$4,400 for Awards Banquet venue, \$1,400 for Mad Science presentations; pending expenses: \$3K for ChemExpo, \$1K for storage rental; expecting reimbursement from National for all six councilor travel; question over unpaid taxes resolved; invoice from National regarding Tom being charged for presenting at Leadership Symposium resolved, expecting to meet budget projections; Vanguard Fund down, now equal to last year.

MedChem Symposium – Event is well attended each year and easily covers expenses.

Motion: to sponsor the event again in 2019 – **Approved unanimously**

Mad Science – Thirty of scheduled 32 programs for the year have been presented

Motion: allocate \$8,500 for 30-34 shows for next year – **Approved unanimously**

Nominations – Ash Tafti resigned in person to Executive Committee as chair for 2019 citing changes in availability for the coming year

Motion: in absence of elected chair, ExComm to appoint Jennifer Barber-Singh and David Wallace as co-chairs for 2019 - **Approved unanimously**

Next Year's Projected monthly meeting schedule – Possible Feb. seminar – Mary Virginia Orna – two presentations: Chemistry and Art, and women who deserved Nobel Prizes; to be organized in conjunction with Jackie Trischman and include CSUSM, Mira Costa College, and Palomar College

Awards Banquet – Expenses at Faculty Club high, 46 paid, 42 actually attended, primarily from ExComm, awardees and guests, community support for this event appears to be lacking

Motion: organize committee to restructure program and increase awareness / community interest to enhance attendance - **Approved**

ChemExpo – 400 extra credit sheets distributed; many Boy Scouts, Girl Scouts; stage demonstrations went well.

Next meeting: Jan. 3, 2019

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ANNOUNCING MORE FREE ONLINE CAREER WORKSHOPS

Due to high demand, ACS Career Services is now offering complimentary Career Pathways Virtual Classrooms, where you'll learn live from skilled experts, helping you achieve your career goals and get the boost you need to succeed. Register for [Setting Yourself Up for Success in an Interview](#) (December 19).

ACS Webinars™

Welcome to ACS Webinars, your source for online live and on-demand content, created by the American Chemical Society. **Please join us weekly Thursdays at 2pm ET.**

[For more information and upcoming Webinars please see: https://www.acs.org/content/acs/en/acs-webinars.html](https://www.acs.org/content/acs/en/acs-webinars.html)

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Attention Companies! Do you hire student workers?

If you have open positions in chemistry and biochemistry that would be of interest to college students, such as summer internship opportunities, here is a list of contacts you'll want to keep handy. The people listed below are the faculty advisors of the ACS Student Affiliate groups for all chemistry programs in San Diego County. These professors can get the word out to all chemistry and biochemistry majors at their schools about jobs, career fairs, open houses, etc.

California State University, San Marcos

Jacqueline Trischman

trischma@csusm.edu

760-750-4206

San Diego Miramar College

Linda Woods

lwoods@sdccd.edu

(619) 388-7750

Point Loma Nazarene University

Sara Choung

SaraChoung@PointLoma.edu

619-849-2627

San Diego Mesa College

Dwayne Gergens

dgergens@sdccd.edu

619-388-2609

San Diego Miramar College

Fred Garces

fgarces@sdccd.edu

619-388-7493

Southwestern College, Chula Vista

David Hecht

dhecht@swccd.edu

619-421-6700x5461

University of California, San Diego

Stacey Brydges

sbrydges@ucsd.edu

858-246-0993

Thomas Bussey

tbussey@ucsd.edu

858-822-6665

University of San Diego

Tammy Dwyer

tdwyer@sandiego.edu

619-260-4030

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2019 ACS REGIONAL MEETINGS

Great Lakes (GLRM)	May 1 - 4	Lisle, IL
Middle Atlantic (MARM)	May 30 - June 1	UMBC, Baltimore
Central (CERM)	June 4 - 7	Midland, MI
Northwest (NORM)	June 16 - 19	Portland, OR
Northeast (NERM)	June 22 - 27	Saratoga Springs, NY
Midwest (MWRM)	October 16 - 18	Wichita, KS
Southeastern (SERMACS)	October 20 - 23	Savannah, GA
Southwest (SWRM)/RMRM	November 13 - 16	El Paso, TX



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THE SAN DIEGO CHEMIST is read by nearly 3000 chemists and biochemists in San Diego and Imperial Counties.

A two-month ad costs only \$80.00

For information contact: **Renate Valois** - renate@sandiegoacs.org



YOUR AD HERE!

Your ad in the next issue of

THE SAN DIEGO CHEMIST

For information contact:

Renate Valois -
renate@sandiegoacs.org

UPCOMING EVENTS

HOLIDAY PARTY

Sufi Mediterranean Cuisine
5915 Balboa Avenue, San Diego, CA 92111
Tuesday, December 4, 2018

SENIORS/RETIREES/CONSULTANTS/ETC. BREAKFAST

Bristol Farms Café - Costa Verde Shopping Center –
Genesee Avenue and Nobel Drive, University City
Tuesday, January 15, 2019, at 9:30 AM

THE CLAUDE "BUD" LEWIS CARLSBAD DESALINATION PLANT

4600 Carlsbad Blvd, Carlsbad, CA 92008
Monday, January 21, 2019

SAN DIEGO FESTIVAL OF SCIENCE & ENGINEERING

EXPO DAY at PETCO Park

Saturday, March 2, 2019

<https://www.lovestemsd.org/>

THE 65th ANNUAL GREATER SAN DIEGO SCIENCE AND ENGINEERING FAIR

Balboa Park Activity Center (2145 Park Blvd.)

For information please see <http://www.qsdsef.org/>

March 12 - 17, 2019

257th ACS NATIONAL MEETING & EXPOSITION

Orlando, Florida

March 31-April 4, 2019

EARTH DAY - EARTHFAIR 2019

Balboa Park, San Diego, CA

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

Sunday, April 28, 2019

SUMMER PICNIC

San Dieguito County Park, Solana Beach

Sunday, June 23, 2019

258th ACS NATIONAL MEETING & EXPOSITION

San Diego, California

August 25-29, 2019

**THE SAN DIEGO SECTION OF THE AMERICAN CHEMICAL SOCIETY
WELCOMES ITS NEW MEMBERS**

Nicole Bakas
Philip Bartels
Ido Ben-Shalom
Celeste Biles
Laurence Burgess
Ya-Ching Chan
Samantha Crawford
Christine Dykstra
Jeffrey Fennelly
Thomas Ford-Hutchinson

Margaret Hardy
Melissa Henderson
Stephen Hoefler
Jennifer Jesse
Khoi Le
Mariko Matsuura
Kristi Naigan
Kenneth Neesham
Alisa Peshina
Nada Qari

Brenda Roach
Andrea Sanchez
William Saumier
Michael Schafroth
Ilana Silva
Aaron Uribe
Dagoberto Valdes
Matt Watkins
Shudan Yang

**2018 EXECUTIVE COMMITTEE & COMMITTEE MEMBERS
SAN DIEGO SECTION OF THE AMERICAN CHEMICAL SOCIETY**

EXECUTIVE COMMITTEE

<i>Chair</i>	Jennifer Barber-Singh, BioFluidica, jbsingh@sandiegoacs.org	(2018)	858-869-7084
<i>Past-Chair</i>	Jonathan Lockner, jlockner@sandiegoacs.org	(2018)	858-688-8143
<i>Secretary</i>	William Tolley, Seacoast Science, Inc., w_tolley@juno.com	(2018)	858-780-0978
<i>Treasurer</i>	Graeme Freestone, Ionis Pharmaceuticals, Inc., gfreestone@sandiegoacs.org	(2018)	858-539-6363

Councilors

Thomas R. Beattie	(2018)	858-587-1210
Hui Cai, WuXi AppTec	(2019)	858-361-8838
Desiree Grubisha, Halozyne Therapeutics	(2018)	858-254-5497
Valerie Kuck	(2020)	973-744-5510
Ken Poggenburg	(2019)	760-635-2573
David Wallace, Wallace Scientific Consulting	(2018)	858-638-1866

Alternate Councilors

Surya K. De, Plex Pharmaceuticals, Inc.	(2019)	858-337-4961
Julann Miller, Waters Corporation	(2020)	800-252-4752 x6802
Ben Pratt, Pratt Pharma Consulting LLC	(2019)	858-945-7893
John Schindler, Mayer-Spissak Engineering Sciences	(2019)	858-353-3943
Jim Shih, Eli Lilly & Co	(2020)	626-826-3561
Shannon Woodruff, HP Inc.	(2020)	949-735-9021

Members-at-Large

Paul Bruinsma, HP Inc.	(2020)	858-655-8322
James Caldwell, Accelagen, Inc.	(2019)	815-262-9697
James O'Brien	(2020)	858-336-0654
Bill Szabo	(2019)	858-550-0306
Joann Um, Southwestern College	(2019)	510-823-8637

STANDING & SPECIAL COMMITTEES

Awards Nomination Committee

Valerie Kuck (Co-Chair)	973-744-5510
John Schindler (Co-Chair)	858-353-3943

ChemExpo

Julann Miller (Chair), Waters Corporation	800-252-4752 x6802
Paul Bruinsma, HP Inc.	858-655-8322

Communications Committee

Paul Bruinsma, (Chair), HP Inc.	858-655-8322
Surya K. De, Plex Pharmaceuticals, Inc.	858-337-4961
Desiree Grubisha, Halozyne Therapeutics	858-254-5497
Ken Poggenburg	760-635-2573
Renate Valois (Newsletter Editor)	619-692-0638
David Wallace, Wallace Scientific Consulting	858-638-1866

Distinguished Scientist Awards Nomination Committee

Thomas R. Beattie (Chair)	858-587-1210
Tammy Dwyer USD	619-260-4030
Barbara Sawrey	858-729-0689
David Wallace, Wallace Scientific Consulting	858-204-5412

Education Committee

Joann Um, (Chair) Southwestern College	510-823-8637
Valerie Kuck	973-744-5510
Joan Schellinger, USD	619-260-7960

EarthFair

James Caldwell, Accelagen, Inc.	815-262-9697
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Finance Committee

Bill Szabo (Chair)	858-550-0306
Tom Beattie	858-587-1210
John Schindler	858-353-3943

Fundraising Committee

OPEN

Government Affairs Committee

Hui Cai, WuXi AppTec (Chair)	858-361-8838
Ken Poggenburg	760-635-2573

Law Committee

Ryan C. Smith, Duane Morris LLP	619-744-2220
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Mad Science Program

Thomas R. Beattie	858-587-1210
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MedChem Symposium

Ben Pratt (Co-Chair), Pratt Pharma Consulting LLC	858-945-7893
Mark Tichenor (Co-Chair), Janssen Pharmaceuticals, Inc.	858-334-8914
David Wallace (Co-Chair), Wallace Scientific Consulting	858-638-1866

Membership Committee

OPEN

Nominations Committee

OPEN

Picnic Committee

Jim Shih, Eli Lilly & Co.	626-826-3561
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Professional Development Committee

Valerie Kuck	973-744-5510
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Public Relations Committee

John Schindler	858-353-3943
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Senior Chemists Committee

Ken Poggenburg (Chair)	760-635-2573
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Seniors Breakfasts

Thomas R. Beattie	858-587-1210
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Women Chemists Committee

Valerie Kuck	973-744-5510
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Younger Chemists Committee

Bryce Timm	512-545-9287
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Voice Mail – San Diego Section

619-687-5570