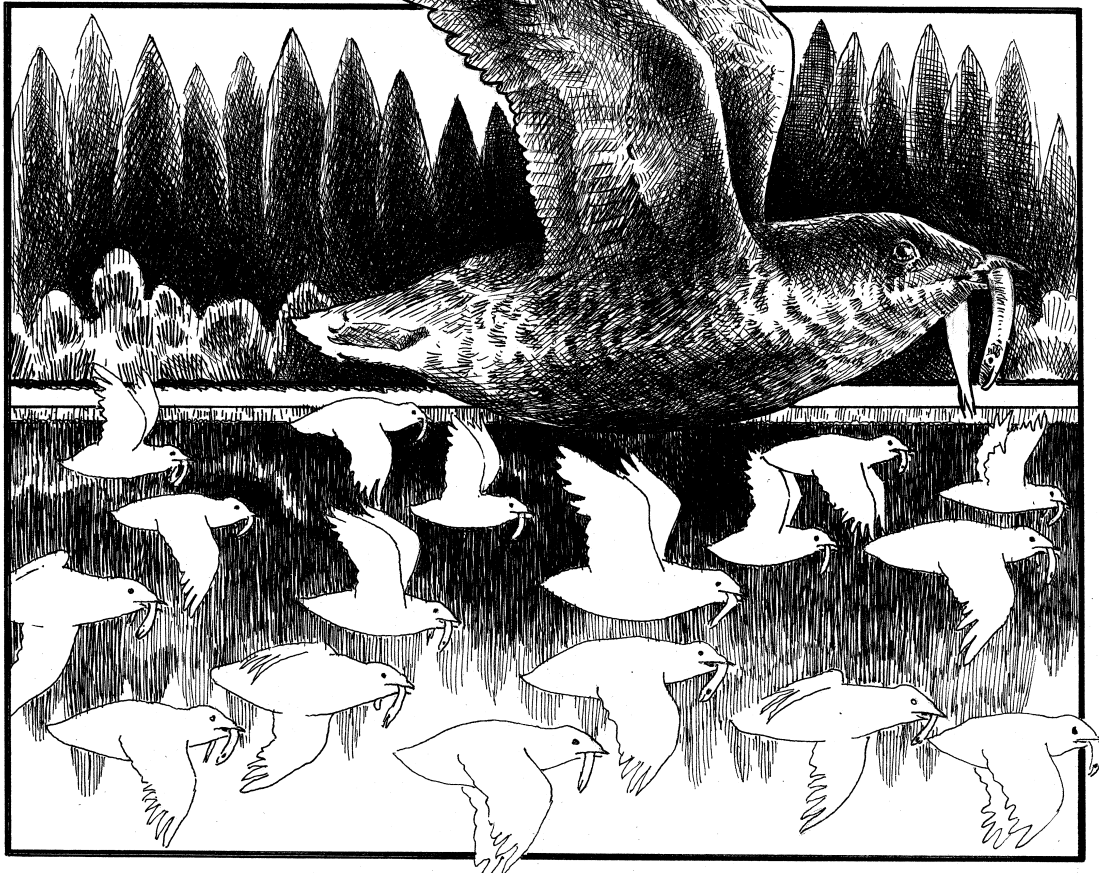


JUNEAU ALASKA

2014



PACIFIC SEABIRD GROUP

FORTY-FIRST ANNUAL MEETING

Juneau, Alaska, USA

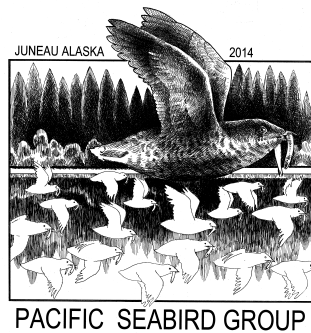
19 - 22 February 2014

Centennial Hall Convention Center

Sponsors and Donors

*The Pacific Seabird Group acknowledges the generous support
of the following sponsors and donors for the 41st Annual Meeting:*





Welcome from the Local Committee!

The Local Organizing Committee of the 41st Annual Meeting of the Pacific Seabird Group welcomes you to Juneau, Alaska. We have been working for more than a year to make this a memorable and rewarding week for all.

We have planned a full social program to complement a top-notch scientific agenda. We will have two receptions, including the Wednesday welcome reception and the Thursday poster session. We will also have a student-mentor social on Friday evening. We have also planned lunch at the Juneau Arts and Culture Center on Thursday and in Ballroom 1 on Friday. On Saturday we invite you to explore one of several downtown eateries on your own for lunch. The banquet dinner will feature a combination of Alaskan and Mediterranean fare. To close the meeting, we are excited to bring to you a Juneau-based dance band, Susu and the Prophets.

We are grateful to Jim Fowler, a local artist, who donated his work for the 2014 PSG annual meeting logo. Please support the meeting as well as the Pacific Seabird Group by purchasing a few souvenirs from the meeting. We will have t-shirts and mugs available for purchase at the registration desk. Be sure to browse the silent auction for rare and unique gifts and souvenirs. Money raised from this auction will go directly to student travel awards for the 2015 annual meeting.

We are very excited that you traveled all the way to Juneau for the meeting and hope you take the time to explore your surroundings. Field trips aboard the Alaska Marine Highway System and a bus ride to see the sights around Juneau offer fantastic opportunities to experience Alaskan wilderness, including glaciers, waterfalls, marine mammals, and seabirds!

We are grateful to the sponsors of this meeting who helped to make this meeting possible through their financial and logistical support. We also appreciate support from EXCO (executive committee) and the current and past LOCOs (local committee). If you need anything during this meeting, please don't hesitate to ask. Thank you for coming and we hope you have a wonderful time in Juneau.

Mayumi Arimitsu and Sadie Wright
Co-Chairs, Local Organizing Committee

Welcome from the Scientific Program Chair!

Whether this is your first meeting, or your forty-first, welcome on behalf of the local committee and the PSG Executive Council. This is the first year that PSG has used an on-line registration tool for the abstracts and we are interested in your feedback following the meeting.

This year's theme is "Seabirds and Ecosystems". True, it is not a groundbreaking idea yet given the diversity of marine ecosystems and species represented in this program, it is quite fitting. There are 89 oral and 24 poster presentations featured in three days of paper and poster presentations. Five Special Paper Sessions address Arctic Seabirds; Conservation of Hawaiian Seabirds; Impacts of Fisheries Bycatch and Derelict Gear; Japanese and Korean Seabirds; and Oiled Seabird Rescue & Rehabilitation: Is It Worth It?

We have three expert plenary speakers to begin the morning sessions. Stephani Zador (NOAA Alaska Fisheries Science Center, Seattle, WA, USA) will open the conference on Thursday with a plenary on the role of seabirds as ecosystem indicators for ecosystem-based management in Alaska. On Friday, Nariko Oka (Yamashina Institute of Ornithology, Abiko City, Japan) will take us across to the northwestern Pacific to tell us about her multi-decadal research on shearwaters, and the wonder of the foraging hotspots of migrating birds. On Saturday, Anthony Gaston (Environment Canada, Ottawa ON, Canada) will lead off the final day of the meeting by sharing his observations, analyses and views of the long-term study of seabirds, with insights from his own remarkable work in the Arctic and on Haida Gwaii.

For the second year in a row, David Ainley brings to PSG a newly released documentary that covers a topic of interest to PSG members - "Pretty Slick", a film by James Fox. Showing on Friday afternoon, the film's Director provides a behind-the-scenes look at the BP oil spill in the Gulf of Mexico, 2010. The film features appearances by Carl Safina and Jane Lubchenco.

On Saturday, we have a closing plenary - the first in PSG's 41-year history. George Divoky, with David Ainley, Alan Springer and Stan Senner, will provide a synthesis of the entire meeting, offering highlights heard over the previous three days, and insights into the future of seabird conservation.

We end the meeting with the festivities at the annual banquet. We are pleased to honor Anthony Gaston with the 2014 PSG Lifetime Achievement Award and Vivian Mendenhall with the 2014 PSG Special Achievement Award. Congratulations Tony and Vivian!

This year's program booklet contains 41 years of scientific program history. The two montages on the back cover celebrate PSG's scientific, volunteer, and artistic accomplishments. The annual meeting list on the last page takes you on a geographical tour of PSG's meeting past and meeting trivia is sprinkled throughout. I am indebted to the Alaska Maritimes NWR for saving programs back to 1974, and to Jeff Williams for many of the images.

An enormous thank you to the local committee co-Chairs, Sadie and Yumi, for hosting the meeting in the city of Juneau and getting us all here. My heartfelt gratitude to Kim Rivera, Lindsay Young and Annette Henry for cheerfully helping me pull this scientific program together. Finally, a huge thanks to all the volunteers, presenters, and all of you for attending. Have a great meeting!

Jo Smith
Chair, Scientific Program

Schedule-at-a-Glance

All events are in the Centennial Hall Convention Center, unless indicated.

Wed 19 Feb	Thu 20 Feb	Fri 21 Feb	Sat 22 Feb
	0730-1700 Registration		
0830-1000 Registration	0845-1000 Welcome & Opening	0800-1600 Registration 0845-1000 Announcements	0800-1400 Registration 0845-1000 Final Announcements
0900-1200 Committee meetings <i>ExCo</i> <i>Marbled Murrelet</i> <i>Seabird Monitoring</i>	Plenary Ecosystem Indicators <i>Stephani Zador</i>	Plenary Foraging Hotspots <i>Nakora Oka</i>	Plenary Long-term Studies <i>Anthony Gaston</i>
	1000-1030 Break	1000-1030 Break	1000-1030 Break
	1030-1200 Special Paper Sessions <i>Arctic Seabirds</i> <i>Hawaiian Seabirds</i>	1030-1200 Special Paper Sessions <i>Japan and Korea Seabirds</i> <i>Oiled Seabird Rescue</i>	1030-1200 Concurrent Sessions <i>Foraging Ecology</i> <i>Contaminants Management</i>
1200 -1800 Registration Desk	1200-1300 Buffet Lunch <i>Juneau Arts & Cultural Center</i> PSG Member's Meeting	1200-1300 Box Lunch Conservation Meeting	1200-1330 Lunch/Free Time
1300-1600 Committee meetings <i>ExCo (cont'd)</i> <i>Kittlitz's Murrelet</i> <i>Marbled Murrelet (cont'd)</i>	1330-1515 Special Paper Sessions <i>Arctic Seabirds</i> <i>Hawaiian Seabirds</i> <i>Fisheries Bycatch</i>	1330-1500 Special Paper Sessions <i>Japan and Korea Seabirds</i> <i>Oiled Seabird Rescue</i>	1330-1500 Concurrent Sessions <i>Foraging Ecology</i> <i>Contaminants Management</i>
		1500-1530 Break	1500-1530 Break
	1515-1545 Break	1530-1700 Contributed Talks <i>Tracking & Distribution</i>	1530-1630 Closing Plenary What We Just Learned... <i>George Divoky et al.</i>
	1545-1715 Concurrent Sessions <i>Population Biology</i> <i>Breeding Biology</i>		1630-1830 Free Time
	1715-1830 Committee meeting <i>Japan Seabird Conservation</i>	1715-1830 Film: 'Pretty Slick' <i>Ballroom 3</i>	
	Free Time	Committee meetings <i>Aleutian Tern</i> <i>North Pacific Albatross</i>	
1830-2130 Welcome Reception <i>Hangar Ballroom,</i> <i>#2 Marine Way</i>	1830-2130 Poster Reception	1830-2130 Student Mentoring <i>Red Dog Saloon</i>	1830-2300 Banquet & Awards <i>Tony Gaston (LAA)</i> <i>Vivian Mendenhall (SAA)</i>
			Dance <i>Susu and the Prophets</i>

Local Organizing Committee

<i>Co-Chairs</i>	Mayumi Arimitsu and Sadie Wright
<i>Scientific Program Chair</i>	Jo Smith
<i>Awards Committee Chair</i>	Kim Rivera
<i>Abstract Book</i>	Kirsten Bixler
<i>Audio-visual</i>	Tim Lawes
<i>Field Trips</i>	Mayumi Arimitsu and Sadie Wright
<i>Fund-raising</i>	Adrian Gall and Shihway Wang
<i>Meeting Program</i>	Jo Smith, Mayumi Arimitsu, Sadie Wright, and Kim Rivera
<i>Meeting Website</i>	Annette Henry
<i>Registration Desk</i>	Tim Lawes and Kirsten Bixler
<i>Registration On-line</i>	Lindsay Young
<i>Student Activities</i>	Sarah Thomsen
<i>Vendor and Exhibitor Liaison</i>	Karen Blejwas
<i>Volunteer Coordinator</i>	Kirsten Bixler

Volunteers

<i>Registration desk and Paper Sessions</i>	Karen Blejwas, Trevor Haynes, Don Lyons, Caroline Poli, Tracy Rivera, Deborah Rudis, Yasuko Suzuki, Andrew Titmus, and others whose names were not available prior to printing.
<i>Contributed Session Chairs</i>	David Ainley, Jennifer Boyce, Gary Drew, Carina Gjerdrum, Annette Henry, Michelle Kissling, and Hannah Nevins
<i>Special Paper Session Conveners</i>	Doug Bertram, Adrian Gall, Megan Laut, Kim Nelson, Kuniko Otsuki, Kyra Mills-Parker, André Raine, and Michael Ziccardi

Special Acknowledgments

Thank you for your generosity and service to make this meeting possible!

Banquet Band: Susu and the Prophets

Catering: Abby's Kitchen

Conference Logo and T-shirt Artwork: Jim Fowler

Hotel Information: Marc Romano

Meeting Program Covers: Lisa Ballance, Harry Carter, Julie Howar, Ken Morgan, Jo Smith and Jeff Williams

Plenary, LAA and SAA Introductions: Pat Baird, Harry Carter, John Croxall, and Julia Parrish

Program printing: Copy Express

Proofreading: Doug Forsell and Ken Morgan

Sage Advice: Doug Forsell, Holly Freifeld, Patrick Jodice, and Lindsay Young

Videography & Photography: Ron LeValley



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Detailed Daily Schedule

Day Field Trips

TIME	DATE	DESTINATION
0530-2030	SATURDAY 15 February	Tenakee Inlet via Angoon, AK
0530-2330	TUESDAY 18 February	Pelican, passing Glacier Bay, AK
0530-2000	WEDNESDAY 19 February	Gustavus via Hoonah, AK
0530-2100	SUNDAY 23 February	Skagway via Haines, AK
0530-2000	MONDAY 24 February	Gustavus via Hoonah, AK

**Please see PSG website for other field trip options and details on ferry route and travel times. Ferries depart @ 0700 hrs.*

Centennial Hall Convention Center

WEDNESDAY 19 February		
TIME	INFORMATION	LOCATION
0800-1800	Registration Desk: 0800-1000 and 1200-1800	Lobby
0900-1200	Seabird Monitoring Committee	Hickel
0900-1700	Marbled Murrelet Technical Committee (MMTC)	Sheffield Ballroom 3
0900-1700	Pacific Seabird Group Executive Council (EXCO)	Sheffield Ballroom 1
1300-1600	Kittlitz's Murrelet Technical Committee (KMTC)	Egan
1800-2100	WELCOME RECEPTION	Hangar Ballroom, 2 Marine Way #106
THURSDAY 20 February		
0730-1700	Registration Desk	Lobby
0830-0900	Welcome and Daily Announcements	Sheffield Ballroom 3
0900-1000	PLENARY: Stephani Zador	Sheffield Ballroom 3
0900-1700	Silent Auction	Davis
0900-2130	Poster Presentations	Sheffield Ballroom 1
0900-1800	Vendors	Lobby
1000-1030	<i>Break</i>	
1000-1030	Student Paper Judging Meeting	Hickel
1030-1200	Special Paper Session: Arctic Seabirds	Sheffield Ballroom 2
	Special Paper Session: Conservation of Hawaiian Seabirds	Sheffield Ballroom 3
1200-1330	<i>Buffet Lunch - All Welcome! PSG Member's Meeting, with Doug Forsell</i>	Juneau Arts & Cultural Centre
1330-1515	Special Paper Session: Arctic Seabirds	Sheffield Ballroom 2
	Special Paper Session: Conservation of Hawaiian Seabirds	Sheffield Ballroom 3
	Special Paper Session: Impacts of Fisheries Bycatch and Derelict Gear	Sheffield Ballroom 3
1515-1545	<i>Break</i>	
1545-1715	Contributed Papers: Seabird Population Biology	Sheffield Ballroom 2
	Contributed Papers: Breeding Biology of Seabirds	Sheffield Ballroom 3
1715-1915	Japan Seabird Conservation Committee (JSCC)	Hickel
1830-2130	POSTER PRESENTATIONS & RECEPTION	Sheffield Ballroom 1

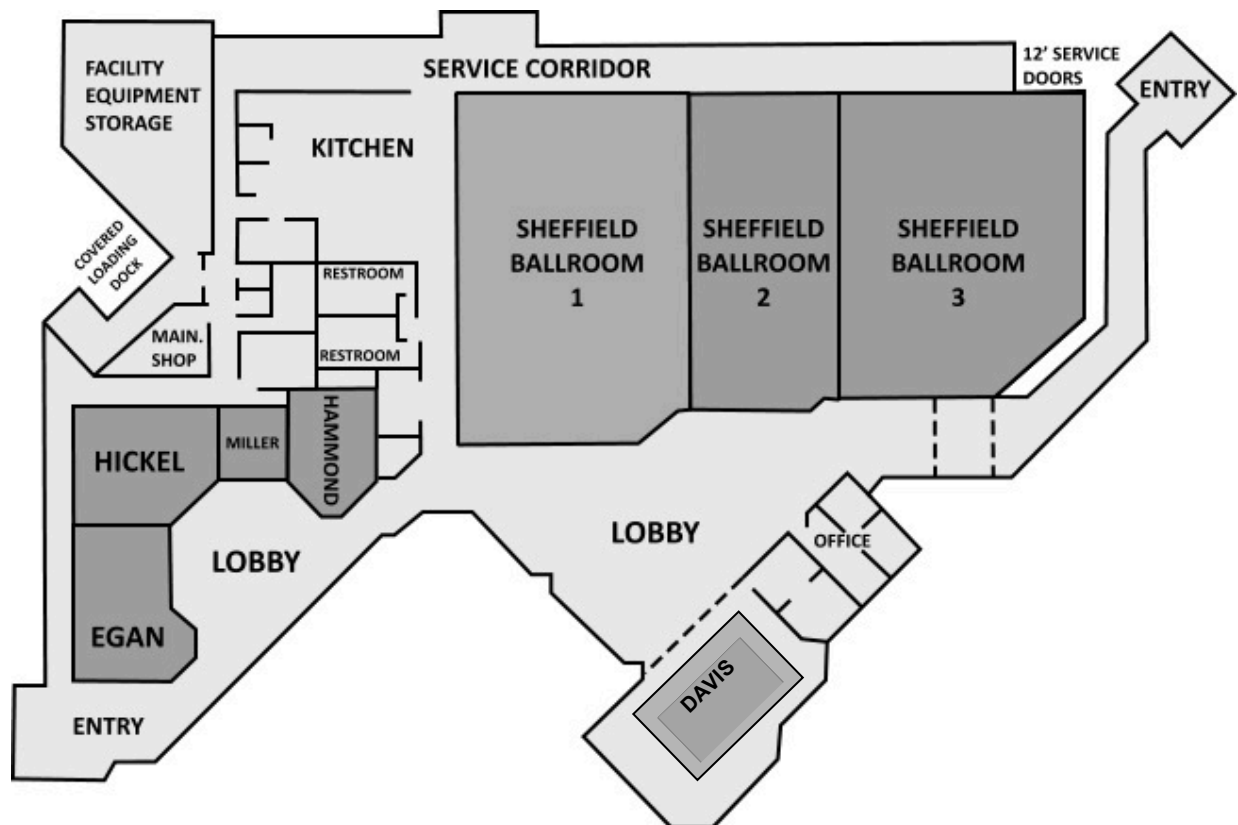
Detailed Daily Schedule

FRIDAY 21 February		
TIME	INFORMATION	LOCATION
0800-1600	Registration Desk	Lobby
0845-0900	Daily Announcements	Sheffield Ballroom 3
0900-1000	PLENARY: Nariko Oka	Sheffield Ballroom 3
0900-1700	Silent Auction	Davis
0900-2030	Poster Presentations	Sheffield Ballroom 1
0900-1800	Vendors	Lobby
1000-1030	<i>Break</i>	
1030-1200	Special Paper Session: Japanese and Korean Seabirds	Sheffield Ballroom 2
	Special Paper Session: Oiled Seabird Rescue & Rehabilitation: Is It Worth It?	Sheffield Ballroom 3
1200-1330	<i>Box Lunch - All Welcome! Conservation Meeting with Stan Senner</i>	Sheffield Ballroom 1
1330-1500	Special Paper Session: Japanese and Korean Seabirds	Sheffield Ballroom 2
	Special Paper Session: Oiled Seabird Rescue & Rehabilitation: Is It Worth it?	Sheffield Ballroom 3
1500-1530	<i>Break</i>	
1530-1700	Contributed Papers: Tracking and Distribution	Sheffield Ballroom 2
1715-1830	Film: "Pretty Slick" (71 min)	Sheffield Ballroom 3
1715-1915	Aleutian Tern Working Group Meeting (ALTE)	Hammond
1715-1915	North Pacific Albatross Working Group Meeting (NPAWG)	Egan
1830-2030	STUDENT MENTORING SESSION	Red Dog Saloon, 278 Franklin Street
SATURDAY 22 February		
0800-1400	Registration Desk	Lobby
0845-0900	Closing Announcements	Sheffield Ballroom 3
0900-1000	PLENARY: Anthony J. Gaston	Sheffield Ballroom 3
0900-1015	Silent Auction Ends	Davis
0900-1800	Poster Presentations	Sheffield Ballroom 1
0900-1800	Vendors	Lobby
1000-1030	<i>Break</i>	
1030-1200	Contributed Papers: Foraging Ecology	Sheffield Ballroom 2
	Contributed Papers: Contaminants Restoration Management	Sheffield Ballroom 3
1200-1330	<i>Lunch (on your own)</i>	
1330-1500	Contributed Papers: Foraging Ecology	Sheffield Ballroom 2
	Contributed Papers: Contaminants Restoration Management	Sheffield Ballroom 3
1500-1530	<i>Break</i>	
1500-1530	Student Paper Judging Meeting	Hickel
1530-1630	CLOSING PLENARY: George Divoky, David Ainley, Alan Springer, Stan Senner	Sheffield Ballroom 3
1630-1730	Student Paper Judging Meeting (cont'd, if needed)	Hickel
1830-2100	BANQUET & AWARDS (purchase tickets in advance)	Sheffield Ballroom
2100-2300	BAND & DANCING! All Welcome!	Sheffield Ballroom

Centennial Hall Convention Center

Downtown Juneau is wedged between steep mountains and the Gastineau Channel. It is a truly dramatic setting for the 41st annual meeting of the Pacific Seabird Group! Juneau is the the state capitol and supports a year-round population of about 31,000 residents. Many species of marine birds and waterfowl can be seen on the water directly across from the Conference Center or in the nearby wetlands. For those of you up before dawn, have a look for Marbled Murrelets flying to the mountains. In addition to the excellent scientific program offered at the meeting, attendees can enjoy the unique nightlife in historic downtown Juneau, world class skiing at Eaglecrest ski area on nearby Douglas Island, and ample opportunities to enjoy the beauty of Alaska on field trips before and after the meeting.

Most of the meeting takes place in the Convention Center. Three social events take place outside the convention center and are described on the following page. Meeting registration is available every day in the Lobby. The morning plenaries are in Ballroom 3 and scheduled talks are in Ballrooms 2 and 3. Poster presentations and an evening reception are in Ballroom 1. The Silent Auction runs daily in Davis, vendors are on display every day in the Lobby, and various committee meetings will be in Egan, Hickel and Hammond. Please see the Schedule-at-a-Glance on page 6-7 for details.



Social Events in Downtown Juneau

Three social events will occur outside of the Centennial Hall Convention Center, in downtown Juneau. The Welcome Reception is in the Hangar Ballroom, 2 Marine Way, #106. The Buffet Lunch is across the street in the Juneau Arts & Cultural Center (JACC), 350 Whittier St. The Student Mentor Session is at the Red Dog Saloon, 278 Franklin Street.

The Convention Center is conveniently located within walking distance to hotels, coffee shops, restaurants and the waterfront.



PSG Meeting Trivia: In 1982, at the Ninth annual meeting in Hawaii, room rates at the Hawaiian Regent Hotel were \$40/night.



Pacific Seabird Group

DEDICATED TO THE STUDY AND CONSERVATION OF PACIFIC SEABIRDS AND
THEIR ENVIRONMENT

Executive Council 2013-2014

Officers

<i>Chair</i>	Doug Forsell
<i>Chair-Elect</i>	Jo Smith
<i>Past Chair</i>	Kim Rivera
<i>Vice-chair for Conservation</i>	Stan Senner
<i>Treasurer</i>	Lindsay Young
<i>Secretary</i>	Patricia Baird

Regional Representatives

<i>Alaska and Russia</i>	Adrian Gall
<i>Canada</i>	Ken Morgan
<i>Washington and Oregon</i>	Peter Hodum
<i>Northern California</i>	Hannahrose Nevins
<i>Southern California, Latin America and Hawaii</i>	Annette Henry
<i>United States*</i>	Iain Stenhouse
<i>Asia and Oceania</i>	Yutaka Watanuki
<i>Europe and Africa</i>	Steffen Oppel
<i>Student Representative</i>	Sarah Thomsen

**excluding AK, WA, OR, CA and HI*

Ex-officio

<i>Editor, Pacific Seabirds</i>	Vivian Mendenhall
<i>Elections Coordinator</i>	Alan Burger
<i>Listserve Coordinator</i>	Verena Gill
<i>Membership Coordinator</i>	Michelle Hester
<i>Website Coordinator</i>	Annette Henry

List of Committee Meetings

Time	Meeting	Meeting Chair	Location
Wednesday 19 February			
1300-1600	Kittlitz's Murrelet Technical Committee	John Piatt	<i>Egan</i>
0900-1200	Seabird Monitoring Committee	Scott Hatch	<i>Hickel</i>
0900-1700	Marbled Murrelet Technical Committee	Kim Nelson & Peter Harrison	<i>Sheffield Ballroom 2</i>
0900-1700	PSG Executive Council (EXCO)	Doug Forsell	<i>Sheffield Ballroom 3</i>
Thursday 20 February			
1000-1030	Student Paper Judging Meeting	Kim Rivera	<i>Hickel</i>
1230-1315	PSG Member's Meeting	Doug Forsell	<i>JACC Building</i>
1700-1900	Japan Seabird Conservation Committee	Kuniko Otsuki & Kim Nelson	<i>Hickel</i>
Friday 21 February			
1200-1330	PSG Conservation Committee	Stan Senner	<i>Sheffield Ballroom 1</i>
1715-1915	Aleutian Tern Working Group	Heather Renner	<i>Hammond</i>
1715-1915	North Pacific Albatross Working Group	Ellen Lance	<i>Egan</i>
Saturday 22 February			
1500-1530	Student Paper Judging Meeting	Kim Rivera	<i>Hickel</i>

PSG Executive Council Meetings

Executive Council (EXCO) - Wednesday

All members are encouraged to attend the EXCO meeting, especially those interested in serving on the Executive Council. The PSG is headed by an Executive Council, which meets annually in-person and one or two times per year via conference calls. PSG annual meetings and publications provide forums where members can share their findings on all research topics relating to Pacific seabirds and discuss local and large-scale conservation issues. A meeting agenda will be available on the PSG website and at the meeting. Items of importance will be summarised at the PSG Member's Meeting. For more information, please contact: Doug Forsell, [djforsell\[at\]aol.com](mailto:djforsell[at]aol.com).

Member's Meeting - Thursday

All members are encouraged to attend the Member's Meeting (formally the 'PSG Business Meeting') during the Buffet Lunch to ask questions, have input on PSG business, or raise issues that concern you. Travel Award recipients are expected to attend this meeting as a condition of accepting their award. For more information, please contact: Doug Forsell, [djforsell\[at\]aol.com](mailto:djforsell[at]aol.com).

Conservation Committee - Friday

All members are encouraged to attend the Conservation Committee Meeting. The Conservation Committee takes an active role in promoting conservation of seabirds. The Conservation Committee often provides support for seabird conservation measures, and criticism of activities that will likely harm seabirds or the marine environment. For more information, please contact: Stan Senner, [ssenner\[at\]oceanconservancy.org](mailto:ssenner[at]oceanconservancy.org).

Former Chairs

The idea of this group is to bring the institutional memory, wisdom and experiences of PSG Former Chairs together to advise and guide the organization on key issues. The main duty for the Former Chairs is to provide information and guidance to the Awards Committee on nominations of candidates for PSG Lifetime Achievement and Special

Achievement Awards. The Former Chairs may also discuss other overarching issues, which pertain to the long-term success of the organization. For more information, please contact Pat Jodice, [pjodice\[at\]clermson.edu](mailto:pjodice[at]clermson.edu)

Technical Committees, Working Groups, and other Meetings

All members are welcome to attend these meetings. Please contact the meeting chair for more information. Meeting locations and times are identified on the previous page.

Aleutian Tern Working Group - Friday

Aleutian Tern breeding populations have apparently declined dramatically in Alaska in recent decades, though there has been little formal monitoring. Several dozen colonies were surveyed opportunistically in 2013 and the USFWS has begun preparing a species status assessment. Due to high variability in colony attendance as well as a lack of comprehensive statewide surveys, there is substantial uncertainty about the magnitude of the trend. A working group of interested parties will meet to evaluate evidence of declines, articulate research needs, and propose monitoring and conservation strategies. For more information, please contact Heather Renner, [heather_renner\[at\]fws.gov](mailto:heather_renner[at]fws.gov)

Japan Seabird Conservation Committee - Thursday

The Japanese Seabird Conservation Committee (JSCC) was created in 1995 to summarize and follow the progress of seabird conservation issues in Japan, encourage international collaboration between scientists on certain projects, and provide information to PSG and other parties. The committee has been active in helping initiate collaborative research, addressing issues affecting the status of rare, threatened and endangered seabirds in Japan, assessing seabird mortality and assisting rehabilitation efforts during oil spills, assisting seabird restoration, and sponsoring/contributing to symposia or special paper sessions on research and conservation of seabirds in Japan and Korea. For more information, please contact: Kuniko Otsuki, [boomam\[at\]sa2.so-net.ne.jp](mailto:boomam[at]sa2.so-net.ne.jp), and Kim Nelson [kim.nelson\[at\]oregonstate.edu](mailto:kim.nelson[at]oregonstate.edu).

Kittlitz's Murrelet Technical Committee - Wednesday

The Kittlitz's Murrelet Technical Committee (KMTC) was formed in 2008 to begin addressing concerns related to the status and conservation of this rare seabird. The purpose of the KMTC is to (1) act as a technical authority on the status, distribution, and life history of the Kittlitz's Murrelet; (2) identify, encourage, and facilitate research; (3) address conservation problems related to the Kittlitz's Murrelet; and (4) act as a liaison between research and management. The KMTC currently comprises roughly 40 members that meet annually in conjunction with the PSG annual meeting and occasionally at other opportunistic venues. For more information, please contact John Piatt, [jpiatt\[at\]usgs.gov](mailto:jpiatt[at]usgs.gov).

Marbled Murrelet Technical Committee - Wednesday

The Marbled Murrelet Technical Committee (MMTC) was created in 1986 for the purpose of assembling researchers and other interested parties to integrate research objectives and methods, and share information on the biology of murrelets. This committee has been very active in sponsoring symposia, writing research protocols, holding workshops, and commenting on federal and state management actions related to forests and oceans. The committee is comprised of a Coordinator and numerous sub-committees, including inland research, at-sea research, education, rehabilitation of injured birds, and research priorities. For more information, please contact Kim Nelson [Kim.Nelson\[at\]oregonstate.edu](mailto:Kim.Nelson[at]oregonstate.edu) or Peter Harrison, [peter.harrison\[at\]dnr.wa.gov](mailto:peter.harrison[at]dnr.wa.gov).

North Pacific Albatross Working Group - Friday

The North Pacific Albatross Working Group (NPAWG) was formed in 2000 for the conservation of the three North Pacific albatross species: Black-footed, Laysan and Short-tailed Albatross. The goal of the working group is to improve albatross conservation in the North Pacific through enhanced communication and coordination for protection, management, monitoring, outreach, and research activities both nationally and internationally. For more information, please contact: Ellen Lance, [ellen_lance\[at\]fws.gov](mailto:ellen_lance[at]fws.gov) or see their webpage: <http://npawg.org>.

Seabird Monitoring Committee - Wednesday

The Seabird Monitoring Committee was formed in 1992 to promote: (a) a better coordinated program for monitoring Pacific seabirds, (b) greater standardization of field methods, (c) timely availability of results, and (d) effective use of seabirds as indicators of local and large-scale change in the Pacific marine environment. Currently, its major project is the development of a comprehensive database for seabird monitoring results from throughout the North Pacific. For further information, please contact Scott Hatch, [shatch.isrc\[at\]gmail.com](mailto:shatch.isrc[at]gmail.com).

Meeting Information for Participants

(Alphabetical, by topic)

Please check the Notice Board beside the Registration Desk for Announcements

Banquet, Awards Ceremony, and Dance

If you would like to attend the banquet but did not purchase a ticket when you registered, you may do so until 1230 pm on Friday 22 February at the registration desk. Tickets are \$55.00. Please wear your name tag throughout the evening. The banquet menu includes your choice of roasted garlic-lemon Frenched chicken breast, roasted fillet of wild Alaskan salmon with saffron buerre blanc, or vegetarian wellington. A no-host bar serving beer and wine will be tended throughout the evening. The awards ceremony will follow the banquet, and is open to all registered attendees, even if they did not purchase a banquet ticket. A dance with live music from 'Susu and the Prophets' - a rock and roll band in Juneau - will follow the awards ceremony. Everyone invited!

Breaks and Networking

During the scientific program, morning and afternoon breaks are included in registration. Please enjoy the complimentary coffee, tea, juice, and light snacks for registered attendees. When talks are in progress, please move away from the ballroom doors to prevent voices drifting in from the break area. If you would like to hold a meeting or enjoy some privacy for a lengthy discussion or debate, please ask at the Registration Desk for availability of meeting space in Centennial Hall.

Cell Phones

Please silence or turn off all mobile devices while attending the scheduled talks.

Field Trips

We have eight field trips this year, including several different day trips on the Alaska Marine Highway System and a bus sightseeing/ birding trip along the Juneau road system. Transportation to the ferry terminal, schedules, and other information is available on the website and at the Registration Desk.

Internet Access

Internet access is provided free of charge for all meeting attendees in Centennial Hall. The wifi password will be posted on the message board near the registration booth. Public computers are not available.

Lost and Found

You can turn in or ask for any lost and found articles at the Registration Desk.

Lunches

Thursday and Friday lunches are provided in your registration. Thursday is a hot buffet lunch and will be served across the Centennial Hall parking lot at the Juneau Arts and Culture Center, 350 Whittier St. Suite 101. The PSG Members' Meeting (formerly PSG Business Meeting) will be held from 1230-1315 on Thursday, during lunch. On Friday, a boxed lunch is provided and will be available in Ballroom 1. The PSG Conservation Committee meeting will be held at this same time. On Saturday, lunch is on your own. Please check out the maps and eating tips included in your registration packet about what lies within walking distance of the conference venue. There are many excellent spots for lunch in historic, downtown Juneau!

Meeting Spaces

There are several meeting spaces in Centennial Hall available for your discussions or meetings. Please enquire at the Registration Desk to reserve.

Meeting Information for Participants

(Alphabetical, by topic)

Please check the Notice Board beside the Registration Desk for Announcements

Oral Presentations

Oral presentation slots are 15 min long, unless otherwise noted. This allows 12 min for a talk and 2-3 min for questions and the transition to the next speaker. Computers are available at the registration desk to load presentations into the session folders. Please save presentations to a USB drive with the following information: Last name (or surname) of first author as it appears in the program, Date of talk, Room, and Session time. Rooms: SB2 = Sheffield Ballroom2, SB3 = Sheffield Ballroom 3.

EXAMPLE: Lawes_22Feb_SB3_1030_1200.

A/V volunteers request all presenters to load their talk the day before their talk is scheduled to be given so they can be saved to the computers in the ballrooms. At the very latest, talks can be loaded by 0900 on the day of the presentation. Audio and video clips can be used and presenters must make sure that the audio or video clip accompanies the presentation file when it is loaded at the Registration Desk. All presenters are responsible for making sure that a presentation works, including any associated media (sound, video). A presentation preview room equipped with a screen and projector is available on a first come first serve basis in the Miller Room; users need to bring their own computer.

The meeting venue is using Microsoft Windows 7 with Microsoft Office 2010. Internet is available in the ballrooms however please ensure that any clips that require the Internet or specific software or applications work prior to your talk. Please ask at the registration desk if you have additional A/V needs, and they will try to accommodate your request.

Parking

Free parking is provided at Centennial Hall Convention Center for meeting attendees.

Poster Presentations

The Poster Presentation Reception is on Thursday from 1830-2130 in Ballroom 1. Appetizers and a cash bar will be available for the duration of the reception. Presenting authors should be in attendance at their poster beginning at 1830. All poster presentations will be displayed from 0900 Thursday through 1800 Saturday. Please see the notice board at the registration desk for any last-minute instructions.

Numbers have been placed on the wall for each poster; please consult the Poster Presentation listing in the program for author numbers. Attach posters to the wall using T-shaped tacks that have been provided by the venue; the wall is cloth covered and we've been instructed not to use tape. Poster dimensions are 4x4 ft. (1.2 x 1.2 m), maximum width x height.

Registration Desk

The registration desk is located in the Lobby, and will be open each day from Wed-Sat. Please see the Schedule-at-a-Glance for registration desk hours.

PSG Meeting Trivia: Annual Meetings have been held nine times at Asilomar Conference Grounds in California...the most for any single location or venue.

Meeting Information for Participants

(Alphabetical, by topic)

Please check the Notice Board beside the Registration Desk for Announcements

Session Chairs

Thank you for your willingness to assist with the scientific program. Please meet at the Registration Desk at 0815 on Thursday morning to review instructions. Session Chairs have a critical job in keeping presenters within the time allotted for their talk so that the meeting stays on schedule and concurrent sessions are synchronized. Session Chairs also work with A/V volunteers and venue staff to make sure that the audience can hear the talk, that the lights are dim enough to see the presentation, and assist the speaker with identifying or hearing questions from the audience after a talk, time permitting.

Prior to your session, ensure you have a timepiece suitable for accurate timing. Synchronize your watch with the session chair in the concurrent session. Start, and keep, on time, with the schedule. Please make contact with all of the speakers in your session to confirm names and pronunciations and inform them on how they will be given warnings for time remaining. Before the session starts, also confirm that all talks are loaded on the laptop. At the beginning of the Session, please welcome the audience and presenters and announce the Session's title (e.g., Breeding Biology or Special Paper Session: Arctic Seabirds). Reiterate to the speakers that they will be given 5- and 3-minute warnings near the end of their talk. At 1-minute, stand up and move closer to the speaker. When there is no time left, move to the podium, thank the speaker, and begin your introduction of the next talk. Please note that at the 1-minute warning, it is important to be friendly but direct in indicating that a talk must come to an immediate close. If a speaker runs over time, they impact the next speaker's time allotment because you must stay synchronized with the concurrent session. For questions, please ask Jo Smith, Scientific Program Chair.

Silent Auction

Come and bid on some beautiful artwork, books, photographs, and other unique items donated for the auction! The silent auction will be held in the Davis Room, Thursday - Saturday. To donate an auction item, please drop it off at the PSG registration desk. All proceeds from the silent auction are used to support PSG's student travel award program. Sheets are next to each item and you simply indicate your bid on the sheet. Bidding will close at 10:15 am on Saturday, 22 February. Successful bids will be posted on the message board near the registration desk no later than 1800 on Saturday, prior to the start of the banquet; you do not need to be present at the banquet to pick up your silent auction item. Payment for auction items is cash or check only. For questions, please ask Sarah Thomsen, Student Representative.

Student Paper Judges

Please meet in the Hickel room on Thursday morning, from 1000-1030, to review the scoring process and be assigned student talks and posters (i.e. first break). On Saturday, after all the student presentations have been given, judges will meet in the Hickel room to deliberate from 1500-1530; additional time may be needed and if so, return to the Hickel room 1630 -1730. Check the message board next to the registration desk for any additional information for judges. For questions, please ask Kim Rivera, Chair of the Student Award Committee.

Volunteers for Registration Desk and Paper Sessions

Please meet at the registration desk on Wed at 0730 or Thu at 0705 to hear instructions from Kirsten Bixler and Tim Lawes. We appreciate all of your help!

Support Students and Travel Awards - Bid at the Silent Auction!

Social Events

Welcome Reception: Wednesday 19 Feb. 1800-2100. Hangar Ballroom, 2 Marine Way #106

A catered reception at an oceanfront venue included in your registration fee, serving a variety of meat and vegetarian appetizers. A no-host bars serves beer and wine - one complimentary drink ticket for each registered attendee.

Poster Presentation and Reception: Thursday 20 Feb. 1830-2130. Sheffield Ballroom 1

A catered reception included in your registration fee, serving a variety of meat and vegetarian appetizers. A no-host bars serves beer and wine - one complimentary drink ticket for each registered attendee.

Special Presentation: "Pretty Slick" - Friday 21 Feb. 1715-1830. Sheffield Ballroom 3

Filmmaker James Fox grows frustrated by the lack of plain talk and BP's inability to plug a gushing well after its Deep Water Horizon rig exploded and sank in the Gulf of Mexico. During the summer of 2010, Fox moves among locals across four Gulf states documenting the largest man-made environmental disaster in U.S. history. He flies over ground zero with Marine Biologist Dr. Carl Safina who warns him that BP is sinking the oil with the chemical dispersant Corexit, sweeping it under the rug. He investigates this further and conducts his own independent water tests to determine toxicity levels. The results show that public safety takes a backseat to a tourist-based economy and the symbiosis between big oil and government becomes clear. <http://prettyslickthemovie.com>

Student Mentor session: Friday 21 Feb, 1830-2030. Red Dog Saloon, 278 Franklin St.

Students and junior researchers are invited to come and chat with senior biologist mentors from academia, Federal/State government, non-profit organizations and private consulting firms. Mentors will be available to answer questions about different career paths and discuss research interests, how to network, or anything else you'd like to ask them. Appetizers and drink tickets will be provided to participants.

Banquet, Awards, and Dance: Saturday 22 Feb. 1830-2300. Sheffield Ballroom

The 2014 PSG Awards Ceremony will take place following the banquet; award presentations will commence at approximately 2000. All welcome! Recipients of the Achievement Awards, Student Paper & Poster Awards, and Travel Awards will be acknowledged.

Achievement Awards: In 1993, PSG instituted two awards to recognize individuals who have made significant contributions to seabirds: “**PSG Lifetime Achievement Award**” recognizes a seabird researcher, educator, or conservationist who has made significant, long-term contributions to seabird science, conservation and education in the Pacific Ocean or the world; and “**PSG Special Achievement Award**” recognizes an individual who has performed outstanding, long-term service for the Pacific Seabird Group, or who has achieved an outstanding and significant exemplary accomplishment for the betterment of seabird research, education, and/or conservation, or both. This year, we are pleased to honor Dr. Anthony J. Gaston with the PSG Lifetime Achievement Award and Dr. Vivian M. Mendenhall with the PSG Special Achievement Award.

Student Paper & Poster Awards: Awards will be presented for the Best Paper by a Masters Student, Best Paper by a Ph.D. Student, and Best Poster by a Student. The annual meeting provides a great opportunity for students to hone their communication skills. Students indicated at registration if they wanted to be considered for an award, and are indicated by a § in the program. PSG members have volunteered to evaluate these presentations. A big shout out of thanks to these members!

Travel Awards: This year, over \$7,500 USD was awarded to assist 19 PSG members with their travel expenses to present a paper or poster in Juneau. Awards are presented at the banquet, and recipients are expected to attend the PSG Member's Meeting (formerly Business Meeting). These awards are yet another way that PSG supports and mentors student members. Travel funds are raised for next year's meeting at the Silent Auction. Visit the Silent Auction in the Davis room - bid high, bid often!

Special Paper Sessions

Arctic Seabird Ecology

Convener: Adrian Gall (ABR Inc. and University Alaska Fairbanks)

The marine environment in the Arctic is changing at a rapid pace: it is losing sea ice, becoming more acidic, storm intensity is increasing, and oil and gas industries are renewing exploration activities offshore. The circumpolar arctic is seeing an increase in shipping traffic as a consequence of the reductions in sea ice. There is an urgent need to get and keep a finger on the pulse of seabird activity in light of these changes. This session will focus on seabird research north of 66°N, complementing efforts by National Ocean and Atmospheric Administration (NOAA) to synthesize information on biological resources in the Arctic (e.g., Synthesis of Arctic Research [SOAR], Distributed Biological Observatory [DBO]). Papers contributed to this special session should focus on the relationship between the arctic environment and seabirds or other birds that rely on marine resources. By sharing information on Pacific and Atlantic seabirds, we can gain a greater understanding of the ecosystem-level changes that are linked to changes in the physical environment.

Conservation of Hawaiian Seabirds

Co-conveners: Megan Laut (US Fish and Wildlife Service), and André Raine (Division of Forestry and Wildlife/Pacific Cooperative Studies Unit)

The Conservation of Hawaiian Seabirds Special Paper Session will give an overview of research and management of Hawaii's listed and non-listed species. The first segment will focus on the management of Newell's shearwater and Hawaiian petrel on Kauai, and will provide an overview of the island-wide Habitat Conservation Plan that is being developed to mitigate for the mortality of these species from lights and power lines. The second segment will be a broader session highlighting conservation work being undertaken on seabirds (not limited to endangered seabirds) throughout the main Hawaiian Islands.

Impacts of Fisheries Bycatch and Derelict Nets on Pacific Marine Birds

Convener: Doug Bertram (Environment Canada)

Bycatch of marine birds from fisheries activities has recently gained significant attention as a worldwide conservation concern. Major advances have been made in reducing bird bycatch from longline fishing operations in marked contrast to gillnet fisheries, which are often on small scales with little or no observer coverage. Lost gillnets can become ghost nets that continue to catch and kill animals for many years unless the derelict net is removed. This session welcomes papers on all aspects of marine bird fisheries bycatch and derelict gillnets including mortality estimation, conservation, management, mitigation and governance.

Special Paper Sessions

Japanese and Korean Seabirds

Co-conveners: Kim Nelson (Oregon State University) and Kuniko Otsuki (Japanese Murrelet Population Survey Team)

The Japanese and Korean Seabird Special Paper Session will help highlight recent research on seabirds in Japan and Korea. Seabird research has increased dramatically in these two countries in recent years, with new data on a variety of species and increased awareness of conservation problems for seabirds on nesting colonies and at sea. After having a 2001 PSG-Japanese Seabird Group symposium on Japanese seabirds and the 2009 PSG meeting in Japan, it is important to continue to highlight our colleagues from the northwest Pacific region to encourage and support their studies, and to educate the international seabird community about issues facing seabirds in Asia

Oiled Seabird Rescue and Rehabilitation: Is It Worth It?

Co-conveners: Kyra Mills-Parker (UC Davis) and Michael Ziccardi (UC Davis)

In the past 50 years, oil spills have repeatedly been observed to be responsible (either directly or indirectly) for the killing of large numbers of seabirds. Invariably, however, each large spill that occurs often generates heated discussions within the scientific community regarding the validity of capturing and providing rehabilitative care to individual oiled animals. During this time period, there have been many improvements and successes in oiled bird care reported from the rehabilitation community, but the practice remains time-consuming, labor-intensive, and costly. In addition, many believe that rescuing and rehabilitating impacted seabirds remains an exercise to appease the demanding public and has little conservation value at the population level. Scientifically valid research studies focused on how well species do in rehabilitation, as well as post-release monitoring studies that can assess the long-term effectiveness of this effort (e.g., post-release survival and successful reproduction) are necessary to appropriately address these questions; yet these publications remain scant and the information scattered. Therefore, this paper session will present a series of presentations synthesizing information on several benchmarks that can be used for assessing the value of rescue and rehabilitation of seabirds following an oil spill. This session welcomes papers that address post-release banding studies, tracking studies, and long-term impacts of spills on seabirds, including chronic oil pollution.

Plenary Speakers

Thursday 20 February: 0900-1000

ECOSYSTEM-BASED MANAGEMENT IN ALASKA: THE ROLE OF SEABIRDS AS INDICATORS OF ECOSYSTEM CHANGE



Stephani ZADOR received her Ph.D. (Aquatic and Fishery Sciences) and M.Sc. (Wildlife Biology) from the University of Washington and a B.A. (Biology and Environmental Studies) at the University of California at Santa Cruz. She is currently a research scientist at NOAA's Alaska Fisheries Science Center, where she conducts applied research on marine ecosystem indicators, including seabirds. She is also responsible for providing information on the Gulf of Alaska, Aleutian Islands, eastern Bering Sea and Arctic ecosystems to fishery managers each year before they set the Alaska groundfish quotas. Before NOAA, Stephani worked as a seabird biologist, spending

many field seasons in remote locations in Alaska, Antarctica, and the US. West Coast. Her particular interests have long been with applied research, such as studying impacts of traditional Glaucous-winged Gull (*Larus glaucescens*) egg harvest in Glacier Bay, Alaska, and management implications of short-tailed albatross population dynamics and fishery interactions.

Friday 21 February: 0900-1000

THE SENSE OF WONDER FOR THE HOTSPOTS OF MIGRANT SEABIRDS IN THE NORTHWESTERN PACIFIC



Narika OKA is the senior scientist of Yamashina Institute for Ornithology in Japan, a non-government institute founded 70 years ago, and Affiliate Professor of Tokyo Agriculture University. She has spent most of her career studying seabirds, especially shearwaters, with additional studies on waterfowl, oil spill effects, and colony restoration. After she graduated from Waseda University in Tokyo, Japan, she became interested in studying natural ecosystems. She received her Ph.D. at Hokkaido University, Hokkaido, Japan, with research that focused on synthetic studies of the mass mortalities of Short-tailed Shearwaters (*Puffinus*

tenuirostris) in relation to chick growth and nutritive ecology in Japan and Tasmania. She also carried out field and laboratory research on waterfowl habitat selection and oil spill fatal effects to diving seabirds. She has written 68 scientific papers and conducted outreach activities to publish 11 books on birds, including translating ornithological books from English to Japanese such as 'Ornithology' by F. B. Gill and 'Ocean Birds' by T. Johnston. Dr. OKA has collaborated in filming shearwaters and contributed her efforts to edit the two major ornithological journals in Japan: Journal of the Yamashina Institute for Ornithology for two and half decades and Japanese Journal of Ornithology for one decade, as Chief Editor for ten and four years, respectively. In the 2000s, she has focused on studying Streaked Shearwaters (*Calonectris leucomelas*), in particular their foraging behavior and habitat use. Using satellite transmitters and loggers, she works with students to examine chick growth and parental attentiveness on Mikura Island, Izu Islands, an island that hosts the world largest population of this species.

Plenary Speakers

Saturday 22 February: 0900-1000

SEABIRDS ARE A LIFETIME STUDY



Anthony J. GASTON is a Research Scientist with Environment Canada and Adjunct Professor in the Department of Biology at the University of Ottawa. He was born in England and educated at Clare College, Cambridge, UK (B.Sc.) and Oriel College, Oxford, UK (Ph.D.) before moving to Canada. For the past three decades he has been developing long-term population studies with a view to creating a detailed understanding of their demography. These studies have provided information on how bird populations are affected by large-scale oceanographic and climatic trends. Most of his research has been concerned with the behavior and ecology of marked birds, so he is especially interested in birds as individuals. Please see the Lifetime Achievement Award for Dr. Gaston's full biography.

Closing Plenary: Saturday 22 February: 1530-1630

WHAT WE JUST LEARNED AND WHAT MIGHT BE ON THE HORIZON: SEABIRD OBSERVATIONS FROM THE DECK OF THE TITANIC



Alaska Fairbanks, and is currently Director of the nonprofit, Friends of Cooper Island.

George DIVOKY began studying seabirds in Alaska in 1970. He has been involved in a diverse group of research and conservation issues including the Alaska Native Land Claims Settlement Act, oil and gas exploration of the outer continental shelf, post-spill damage assessment and restoration, and regional climate change. Since 1975 he has maintained a continuing study of Black Guillemots (*Cephus grylle*) on Cooper Island, Alaska in the western Beaufort Sea. He obtained his master's degree from Michigan State University, doctorate from the University of



Alaska Fairbanks, and is currently Director of the nonprofit, Friends of Cooper Island.

David AINLEY received his BS degree from Dickinson College and Ph.D. from Johns Hopkins University. He has made ~30 trips to Antarctica and the Southern Ocean, about half on oceanographic research vessels. Currently, he is involved in research on penguin demography, as well as a study on the effects of cetacean foraging on penguin prey availability at Ross Island; and studies using an ocean glider and Remotely Operated Vehicles to assess effects of penguin foraging on prey availability. He's also worked extensively in the California Current, including many cruises as well as founding, and then working at, the Point Reyes Bird Observatory marine research program on the Farallon Islands; and worked with Larry Spear for 15 years trying to understand better the ecology of seabirds in the eastern Equatorial Pacific; and with Greg Spencer in studies of endangered Hawaiian seabirds. For the past 10 years he's been engaged in trying to protect the Ross Sea from humans, most immediately industrial fishing (www.lastocean.org). He's written 4 books, 12 monographs and ~230 papers about the ecology of marine top predators: seabirds, mammals and sharks.

Plenary Speakers



Alan SPRINGER is Research Professor and a marine ecologist at the Institute of Marine Science, University of Alaska Fairbanks. He received his BA degree at The Colorado College and his Masters and Ph.D. degrees at the University of Alaska Fairbanks. He has studied seabirds for more than 35 years from Southeast Alaska, throughout the Aleutian Islands, all of the major islands in the Bering Sea, and the Chukchi Sea. In addition, he has had projects on fur seals in the Aleutian Islands and Pribilof Islands, and is beginning a study of walruses in Bristol Bay. His principal interests center on trophic

interactions in marine food webs and the effects of both bottom-up and top-down forcing on ecosystem function and the status and abundance of species at higher trophic levels. He has published papers on subjects ranging from ice algae and phytoplankton to whales.



Stanley SENNER received a B.A. in biology from Bethel College in Kansas, and a M.S. in biology from the University of Alaska Fairbanks. His research has focused on the migration ecology of shorebirds and his career of ~40 years has focused on conservation of birds and natural resources. Stan worked as Alaska representative for The Wilderness Society and then as a staff member in the U.S. House of Representatives during congressional action on the Alaska Lands Act. He served as chair of the U.S. Section of the International Council for Bird Preservation (aka BirdLife), was a founding board member of the American Bird Conservancy, and spent 8 years as executive director at Hawk Mountain Sanctuary, in Pennsylvania. Following the *Exxon Valdez*

oil spill (EVOS), Stan was chief restoration planner and then science coordinator for the EVOS Trustee Council. Stan was executive director of Audubon Alaska for 10 years and is now director of conservation science for Ocean Conservancy.

Plenary Abstracts

Thursday 20 February: 0900-1000

ECOSYSTEM-BASED MANAGEMENT IN ALASKA: THE ROLE OF SEABIRDS AS INDICATORS OF ECOSYSTEM CHANGE

Stephani Zador (NOAA Alaska Fisheries Science Center)

The marine waters of Alaska's Exclusive Economic Zone encompass four distinct ecosystems: the Arctic, eastern Bering Sea, Aleutian Islands, and the Gulf of Alaska. Commercial groundfish fisheries are active within the latter three ecosystems and are of great importance to the United States' economy, contributing \$1.05 billion USD in 2012 in the price of fish alone. These fisheries are also of great conservation interest due to the potential direct and indirect effects on marine ecosystems. In the US, ecosystem-based management was declared a national priority under the Magnuson-Stevens Fishery Conservation and Management Reauthorization Act of 2006 and the 2011 National Ocean Policy. How these new national policies inform or change existing regional fisheries management is an evolving process and varies by jurisdiction. In Alaska, the groundfish fisheries are managed by the North Pacific Fisheries Management Council. This Council's objectives are to maintain predator-prey relationships and energy flow, maintain diversity, maintain habitat, and incorporate/monitor effects of climate change. Identifying suitable ecosystem indicators to monitor over time and in relation to management actions is one way to meet the Council's objectives. Seabirds-as-indicators is a long-standing discussion, both in the literature and among members of the Pacific Seabird Group. In Alaska, seabirds are currently used as indicators to measure some of the direct ecosystem impacts of fisheries by monitoring seabird bycatch, and are increasingly being included in a broader context through monitoring demography and foraging. In this presentation, I'll discuss ecosystem indicators in Alaska and the ways that seabirds currently inform the fisheries management process. I'll also suggest ways that seabirds could further inform managers in the evolving process of ecosystem-based management.

Friday 21 February: 0900-1000

THE SENSE OF WONDER FOR THE HOTSPOTS OF MIGRANT SEABIRDS IN THE NORTHWESTERN PACIFIC

Nariko Oka (Yamashina Institute for Ornithology)

The northwestern Pacific has various oceanographic features that support seabird populations throughout the year. The waters off northern Japan have important physical variables such as current fronts, sea ice fronts, and upwelling flow, and this results in some of most highly productive and variable waters in the north Pacific. Shearwater species utilize these waters in different ways so that foraging hotspots vary seasonally and differ among and within species. In this plenary talk, I discuss why the Short-tailed Shearwater (*Puffinus tenuirostris*), a migrant from Tasmania and southeast Australia, died off in different magnitude along the Pacific coast of Japan, just in front of their migratory terminus. What happened in our productive waters? To answer this question, I used several methods: laboratory studies to analyze nutrition, trans-Pacific boat surveys to study shearwater migration routes, field studies at breeding colonies for chick growth, and field and lab experiments for dietary contributions in Tasmania, Australia. These synthetic studies have showed that the mortality of shearwaters was highest during their first migration and was mostly due to energy, that is, the quantity and quality of food provisioned from parents at the nest site before departure to northern hemisphere. In contrast, the Streaked Shearwater (*Calonectris leucomelas*), breeding on Japanese archipelagos and wintering in equatorial waters, utilizes spatial resources differently than Short-tailed Shearwaters in the variable waters off Japan. With the students like ninjas, we have documented the exquisite strategies that shearwaters use to raise their chick and their foraging behavior in the variable environments of the northwestern Pacific. I will conclude my talk by discussing the ongoing issue of population restoration at key colonies for the shearwaters.

Plenary Abstracts

Saturday 22 February: 0900-1000

SEABIRDS ARE A LIFETIME STUDY

Anthony J. Gaston (Environment Canada)

Ecological studies tend to segregate into those that highlight spatial dimensions (biogeography, landscape ecology) and those that highlight changes over time. Seabirds, because they live a long time and because they often breed in dense aggregations, lend themselves especially to time-trend investigations. There are many long-term studies that have followed key ecological indicators of seabird biology over decades. I review some of these studies, with emphasis on two that I initiated myself (Ancient Murrelets, *Synthliboramphus antiquus*, in Haida Gwaii, Thick-billed Murres, *Uria lomvia* in Arctic Canada) and develop guidelines for what can be expected from such long-term studies. I contrast the investment required and the results that can be expected for different species and life-histories and consider whether there may be an optimal duration for such studies. In doing so, I discuss whether long-term studies require annual replications, how big a sample size is required for meaningful estimation of survival rates, and why modeling populations based on measured demographic traits may not be very useful, except as a stimulus for further empirical work. In closing, I consider what significant questions remain relating to seabird demography and population change and how they can best be answered.

Closing Plenary: Saturday 22 February: 1530-1630

WHAT WE JUST LEARNED AND WHAT MIGHT BE ON THE HORIZON: SEABIRD OBSERVATIONS FROM THE DECK OF THE TITANIC

George J. Divoky (Friends of Cooper Island), David G. Ainley (H.T. Harvey & Associates), Alan M. Springer (University of Alaska Fairbanks), and Stan E. Senner (Ocean Conservancy)

This presentation, the first of its kind to be given at a PSG meeting, will seek to summarize the talks and posters presented in the previous three days, focusing on the more noteworthy findings, and most important themes. It will also include an attempt to identify future opportunities, challenges and difficulties in seabird research and conservation about which meeting attendees will be encouraged to share their thoughts in an open discussion.

As PSG enters its fifth decade, researchers are using a range of technological tools to assess seabird movements, diet, diving behavior, genetics, hormones, etc. that were unimaginable during the first decade of PSG. Additionally, new statistical tools and a wealth of readily available datasets on physical and biological oceanography help greatly in the analysis and interpretation of data gathered by seabird biologists. Unfortunately these major enhancements to marine bird research come at a time when the number and magnitude of threats to marine ecosystems have never been larger, while at the same time agency ability to adequately address these threats declines.

PSG Meeting Trivia: In 2005, the 3rd joint meeting with the Colonial Waterbirds Society had a record 289 abstracts.

Lifetime Achievement Award



PSG is honoring **Dr. Anthony J. GASTON** with a Lifetime Achievement Award in 2014. For nearly thirty years, Tony has long been a leader and participant in our group presenting top quality presentations from his work for the Canadian Wildlife Service, Environment Canada, on the ecology of seabirds. Most of his research has been in the Eastern Canadian Arctic, which he has visited annually since 1975 to study Thick-billed Murres and other seabirds.

Gaston was born in England and educated at Clare College, Cambridge, UK (B.Sc.) and Oriel College, Oxford, UK (Ph.D.) before moving to Canada. A bird-bander since the age of 11, he is interested in all facets of ornithology, as well as in arctic and marine ecology and the ecology of high altitude ecosystems. For the past three decades he has been developing long-term population studies with a view to creating a detailed

understanding of their demography. These studies have provided information on how bird populations are affected by large-scale oceanographic and climatic trends. Most of his research has been concerned with the behavior and ecology of marked birds, so he is especially interested in birds as individuals. He specializes in researching birds that other ornithologists cannot reach.

While his main focus has been marine bird occurring in the Eastern Canadian Arctic, he has also developed a long-term project in Haida Gwaii (Queen Charlotte islands) studying the Ancient Murrelet, as well as the impact of introduced species, especially raccoons and black-tailed deer, on natural ecosystems of Haida Gwaii and the phylogenetic affiliation of the endemic races of landbirds in the archipelago .

For PSG he is most recently retired from the job of Editor-in-Chief for Marine Ornithology which, along with the late Steve Speich, he shepherded its transition to PSG management in 1999. He continues as Managing Editor for the journal, overseeing production and subscriptions. He also acted as Scientific Convener for a special meeting of PSG in Taiwan in 2007.

His other Major Activities/Affiliations include; Co-Chair, Technical Committee of the Canadian Waterbird Conservation Plan (Wings over Water); Director of Research, Laskeek Bay Conservation Society; Founding Director, Research Group on Introduced Species. He has been awarded both the Doris Huestis Spiers Award (2006) and the Jamie Smith Memorial Mentoring Award (2013) by the Society of Canadian Ornithologists.

During his career, Tony has written extensively for the lay audience with several titles including :

Seabirds: A Natural History (Yale, 2004)

Bird Families of the World - The Auks: Alcidae (with Ian L. Jones; OUP, 1998)

The Ancient Murrelet in the Queen Charlotte Islands (Poyser, 1992)

The Thick-billed Murres of Prince Leopold Island (with David N Nettleship; Environment Canada, 1981).

In addition, he has authored many academic papers and contributed as co-author on many others. With his wife, Anne-Marie Gaston, he co-authored the chapter on Dance for the Oxford Handbook of Religion and the Arts (OUP, 2013).

Special Achievement Award



The Pacific Seabird Group (PSG) is honoring **Dr. Vivian MENDENHALL** with a Special Achievement Award in 2014. Vivian is stepping down after 14 years as editor of Pacific Seabirds (PS). Vivian's tenure as editor has far exceeded that of past volunteers and spans more than a quarter of PSG's organizational history.

The editor's job is one of the most time-consuming and often thankless tasks in PSG. PS is a hybrid journal: partly news bulletin for PSG, also an outlet for research reports and short peer-reviewed articles. The editor solicits contributions, announces deadlines, and reminds contributors (sometimes

several times). She checks each manuscript for readability, reliability, grammar, and format, and discusses potential revisions with each author. Sometimes there's help from assistants or peer reviewers. Finally each issue is "desk-top published"—all pages are laid out on the computer. The final task, tiresome but essential, is proofreading.

Two previous editors deserve special mention: Steve Speich (1996-1999) devised the journal's current format and updated its name (previously Pacific Seabird Group Bulletin); both he and Malcolm Coulter (1985-1990) provided valuable advice. Vivian's contributions to PSG have also included two terms as Secretary of the Executive Council (1994 through 1997). She has helped amend the Bylaws several times and has often provided advice to PSG officers and other committees.

Dr. Mendenhall grew up in Pasadena, California, and started birding in elementary school. She received her bachelor's in zoology at UCLA in 1966 and did her master's at UC Berkeley on the feeding ecology of the Willet (*Tringa semipalmatus*) (1970). Next Vivian went north in search of "real winters" and spent three years as a technician at the University of Alaska Fairbanks. Extracurricular activities there included climbing, a ski expedition in the Brooks Range, and exploration of the Alsek River by kayak (this was before helicopter-assisted commercial trips!). She then went to Aberdeen University in Scotland for her PhD (1976) on the population ecology of the Common Eider (*Somateria mollissima*). Productivity on a small estuary was inversely correlated with rain and wind during the breeding season, primarily because gull (*Larus* spp.) predation on ducklings was more successful during bad weather.

Vivian joined the U.S. Fish and Wildlife Service in 1976. She worked for six years at Patuxent Wildlife Research Center in Maryland on secondary impacts of chlorinated hydrocarbons and anticoagulant rodenticides. Returning to Alaska in 1983, she worked on planning for national wildlife refuges. In 1986 she joined the program for monitoring seabirds at colonies throughout Alaska and in Far Eastern Russia. She also counted seabirds at sea and managed the digital Beringian Seabird Colony Catalog. Vivian also represented the agency on a National Marine Fisheries Service planning committee, and taught fishery observers to identify seabirds in bycatch.

Since retiring in 1998, Vivian has been active in conservation, particularly of birds in coastal Alaska such as Sandhill Cranes (*Grus canadensis*). She sings in the Anchorage Opera chorus, and with her husband, James L. Johnston, goes on nature tours to other continents—including (for Vivian, of course) birding.

Scientific Program

WEDNESDAY 19 February

0800-1000 1200-1800	Registration Desk - Lobby
0900-1200	Seabird Monitoring Committee - Hickel
0900-1700	Marbled Murrelet Technical Committee (MMTC) - Sheffield Ballroom 3
0900-1700	Pacific Seabird Group Executive Council (EXCO) - Sheffield Ballroom 1
1300-1600	Kittlitz's Murrelet Technical Committee (KMTC) - Egan
1800-2100	Welcome Reception - All Welcome! <i>Hangar Ballroom, 2 Marine Way # 106</i>

ABSTRACTS are available on the PSG website. A hard copy is available for viewing at the Registration Desk.

PSG Meeting Trivia: The first time that abstracts were not published with the annual meeting program was in 2012.

THURSDAY 20 February

ABSTRACTS are available on the PSG website. A hard copy is available for viewing at the Registration Desk.

0730-1700	Registration Desk - Lobby	
0830-0900	Welcome and Daily Announcements - Sheffield Ballroom 3	
0900-1000	Plenary - Sheffield Ballroom 3 Stephani Zador, NOAA - Alaska Fisheries Science Center <i>Developing ecosystem indicators for ecosystem-based management in Alaska: the role of seabirds.</i>	
1000-1030	Break	
1000-1030	Student Paper Judging Meeting - Hickel	
1000-2100	Silent Auction - Davis	
	Sheffield Ballroom 2	Sheffield Ballroom 3
1030-Noon	Special Paper Session Arctic Seabirds Convener: Adrian Gall	Special Paper Session Conservation of Hawaiian Seabirds Conveners: Megan Laut and André Raine
1030	FROM OVERLOOKED TO OVERWHELMED: ARCTIC ALASKA'S SEABIRDS AT THE CROSSROADS - George Divoky* and Robert S. Suydam	ACOUSTIC DETECTIONS OF AVIAN POWER LINE COLLISIONS: A NOVEL MONITORING SOLUTION FOR A GLOBAL PROBLEM - Marc Travers*, André F. Raine, and Matthew McKown
1045		SAVING NEWELL'S SHEARWATERS-35 YEARS OF REHABILITATION AND RELEASE ON KAUAI - Tracy Anderson*
1100	MARINE DISTRIBUTION OF SEABIRDS IN THE EASTERN CANADIAN ARCTIC: THEN AND NOW - Sarah Wong*, Carina Gjerdrum, and Mark L. Mallory	WHEN A SEABIRD CALLS IN THE FOREST AND NO ORNITHOLOGIST IS AROUND TO HEAR IT - DOES A SONG METER RECORD ITS SOUND? - André F. Raine*, Brooke McFarland, and Matthew McKown
1115	SEASONAL AND SPATIAL PATTERNS OF MARINE-BIRD DISTRIBUTIONS IN THE PACIFIC ARCTIC - Kathy J. Kuletz*, Adrian E. Gall, Brendan Hurley, Elizabeth A. Labunski, Tawna C. Morgan, and Robert H. Day	THE KAUAI SEABIRD HABITAT CONSERVATION PROGRAM: COMMUNITY SUPPORT AND ADAPTIVE MANAGEMENT CHALLENGES - Adam Griesmer* , Paul Belson, and Lasha-Lynn H. Salbosa
1130	POPULATION UP, PRODUCTIVITY DOWN: FOUR DECADES OF CHANGE IN BLACK- LEGGED KITTIWAKE DEMOGRAPHICS AT CAPE LISBURNE, ALASKA - Nora A. Rojek*, Donald E. Dragoo, and Heather M. Renner	
1145	OCCUPANCY OF YELLOW-BILLED AND PACIFIC LOONS: EVIDENCE FOR INTERSPECIFIC COMPETITION AND HABITAT MEDIATED CO-OCCURRENCE - Trevor B. Haynes (University Alaska Fairbanks)*§, Joel A. Schmutz, Mark S. Lindberg, Kenneth G. Wright, Brian D. Uher-Koch, and Amanda E. Rosenberger	USING LANDSCAPE MODELS TO PRIORITIZE AREAS FOR NEWELL'S SHEARWATER CONSERVATION - Megan Laut* and Adam Vorsino
1200-1330	<i>Lunch - All Welcome!</i> PSG Member's Meeting, with Doug Forsell, PSG Chair <i>Juneau Arts & Cultural Centre (JACC), 350 Whittier Street.</i> <i>Across the parking lot from Centennial Hall Convention Center.</i>	

* - presenter

§ - considered for student paper award

THURSDAY 20 February

	Sheffield Ballroom 2	Sheffield Ballroom 3
1330-1400	Special Paper Session (cont'd) Arctic Seabirds Convener: Adrian Gall	Special Paper Session (cont'd) Conservation of Hawaiian Seabirds Conveners: Megan Laut and André Raine
1330	DISTRIBUTION AND ANNUAL MOVEMENTS OF THE IVORY GULL (<i>PAGOPHILA EBURNEA</i>) IN THE CANADIAN ARCTIC - Nora Spencer (Acadia University)*§, Grant Gilchrist and Mark Mallory	SEABIRD CONSERVATION ON O‘AHU OFFSHORE ISLAND WILDLIFE SANCTUARIES - Amarisa Marie*
1345	INDIVIDUAL SPECIALIZATION OF ARCTIC SEABIRDS VIA FREQUENCY-DEPENDENT SELECTION - Kyle H. Elliott and Tony Gaston*	SEABIRD RESEARCH & MANAGEMENT ON THE ISLANDS OF MAUI NUI - Jay F. Penniman* and Alicia M. Rhoades
1400	REGIME CHANGE OFF NORTHERN ALASKA: SEABIRDS TRY TO REMAIN TEMPERATE AS THE ARCTIC BECOMES SUBARCTIC - George Divoky*	HABITAT AFFINITIES AND AT-SEA RANGING BEHAVIORS AMONG MAIN HAWAIIAN ISLAND SEABIRDS - David Pereksta*, Josh Adams, Michelle H. Hester, Jay F. Penniman, Lindsay Young, and André F. Raine
1400-1500	Special Paper Session Impacts of Fisheries Bycatch and Derelict Gear Convener: Doug Bertram	Special Paper Session (con'td) Conservation of Hawaiian Seabirds Conveners: Megan Laut and André Raine
1415	DERELICT GILLNETS IN THE SALISH SEA: CAUSES OF GILLNET LOSS, EXTENT OF ACCUMULATION AND DEVELOPMENT OF A PREDICTIVE TRANSBOUNDARY MODEL - Kyle L. Antonelis*	CONSTRUCTION EFFECTS AND VIDEO RESULTS FOR HAWAIIAN PETRELS - Cathleen S. N. Bailey*, Joy Tamayose, Raina Kaholoaa, Steve Orwig, Kelly Goodale, and Matt Brown
1430	REVIEW OF GILLNET FISHERIES EFFORT AND SEABIRD BYCATCH IN BRITISH COLUMBIA, CANADA:1951-2007 - Doug F. Bertram*, Kristin J. Charleton, Jo Smith, Ken H. Morgan, Leroy Hop Wo, and Lee Keary	No Scheduled Talks
1445	BY-CATCH OF KITTLITZ’S MURRELET (<i>BRACHYRAMPHUS BREVIROSTRIS</i>) IN COMMERCIAL SALMON GILLNET FISHERIES IN THE GULF OF ALASKA: A RISK ASSESSMENT - Karen Blejwas*, and Sadie Wright	
1500	PRELIMINARY ESTIMATES OF SEABIRD BYCATCH IN THE ALASKAN HALIBUT LONGLINE FISHERY IN 2013 - Shannon Fitzgerald*, Jennifer Cahalan, Jason Gasper, and Jennifer Mondragon	
1515-1545	Break	

* - presenter

§ - considered for student paper award

PSG Trivia: In 1974, Volume I, Issue No. I of 'Pacific Seabirds', Alaskan seabirds and oiling were identified as an issue of serious concern.

THURSDAY 20 February

	Sheffield Ballroom 2	Sheffield Ballroom 3
1545-1730	Contributed Papers Seabird Population Biology Session Chair: Michelle Kissling	Contributed Papers Breeding Biology of Seabirds Session Chair: David Ainley
1545	SURVIVAL IN MACARONI PENGUINS AND THE RELATIVE IMPORTANCE OF DIFFERENT DRIVERS; INDIVIDUAL TRAITS, PREDATION PRESSURE AND ENVIRONMENTAL VARIABILITY - Catharine Horswill (British Antarctic Survey)*§, Norman Ratcliffe, Phillip N. Trathan, Jason Matthiopoulos, and Jonathan A. Green	REPRODUCTIVE ECOLOGY AND SUCCESS OF RED-BILLED TROPICBIRDS ON ST. EUSTATIUS - Hannah Madden, Andrew Ellis, and Patrick G.R. Jodice*
1600	APPARENT SURVIVAL OF ADULT LEACH'S STORM-PETRELS (<i>OCEANODROMA LEUCORHOA</i>) BREEDING ON BON PORTAGE ISLAND, NOVA SCOTIA - Danielle T. Fife (Acadia University)*§, Ingrid L. Pollet, Gregory J. Roberston, Mark L. Mallory, and Dave Shutler	TOP-DOWN AND BOTTOM-UP INTERACTIONS INFLUENCE REPRODUCTIVE SUCCESS AT A CASPIAN TERN SUPER-COLONY - Stefanie Collar (Oregon State University)*§, Daniel D. Roby, and Donald E. Lyons
1615	REPRODUCTIVE PERFORMANCE OF THE KITTLITZ'S MURRELET - Michelle Kissling*, Paul Lukacs, Stephen Lewis, and Scott Gende	AGE MATTERS? INFLUENCE OF MANAGEMENT PRACTICES ON AGE-SPECIFIC COLONY ARRIVAL DATES AND AGE DISTRIBUTION IN CASPIAN TERNS - Yasuko Suzuki*, Daniel D. Roby, Donald E. Lyons, Pete J. Loschl, Timothy J. Lawes, and Kirsten S. Bixler
1630	MARINE PREDATORS AS TERRESTRIAL PREY: COULD A CLIMATE-DRIVEN TERRESTRIAL RESOURCE PULSE LEAD TO HYPERPREDATION OF A THREATENED SEABIRD BY NATIVE PREDATORS? - Sarah K. Thomsen (Simon Fraser University)*§, A. Laurie Harvey, and David J. Green	GRADIENTS IN BREEDING BROWN PELICAN FORAGING RADIUS, CHICK CONDITION, AND DIET ACROSS THE NORTHERN GULF OF MEXICO - Juliet S. Lamb (Clemson University)*§, and Patrick G.R. Jodice
1645	PELAGIC CORMORANT POPULATION AND REPRODUCTIVE STATUS – THE BEGINNING OF AN ASSESSMENT - Ron LeValley*, Michelle Hester, Ryan Carle, and David Calleri	EFFECTS OF OCEANOGRAPHIC VARIABILITY ON THE REPRODUCTIVE SUCCESS AND HABITAT USE OF LAYSAN AND BLACK-FOOTED ALBATROSSES - Lesley H. Thorne*, Scott A. Shaffer, Elliott Hazen, Steven Bogard, David Foley, and Melinda A. Connors
1700	MONITORING BLACK-CAPPED PETRELS (<i>PTERODROMA HASITATA</i>) NESTING AT MORNE VINCENT, HAITI AND LOMA DEL TORO, DOMINICAN REPUBLIC - Ernst Rupp, Esteban Garrido, Holly Freifeld*, Adam Brown, and James Goetz	AS THE EGG TURNS: MONITORING EGG ATTENDANCE BEHAVIOR IN SEABIRDS USING NOVEL DATA LOGGING TECHNOLOGY - Scott A. Shaffer, Corey A. Clatterbuck, Emma Kelsey (San Jose State University)*§, and Geoff C. Bower
1715-1915	Japan Seabird Conservation Committee (JSCC) - Hickel	
1830-2130	Reception, with appetizers - All Welcome! Poster Presentations - Sheffield Ballroom 1	

* - presenter

§ - considered for student paper award

FRIDAY 21 February

0800-1600	Registration Desk - Lobby	
0845-0900	Daily Announcements - Sheffield Ballroom 3	
0900-1000	Plenary - Sheffield Ballroom 3 Nariko Oka, Yamashina Institute For Ornithology <i>The Sense of Wonder for the Hotspots of Migrant Seabirds in the Northwestern Pacific</i>	
1000-1030	Break	
1000-2100	Silent Auction - Davis	
	Sheffield Ballroom 2	Sheffield Ballroom 3
1030-1200	Special Paper Session Japanese and Korean Seabirds co-Conveners: Kim Nelson & Kuniko Otsuki	Special Paper Session Oiled Seabird Rescue and Rehabilitation: Is it Worth It? Conveners: Kyra Mills-Parker & Michael Ziccardi
1030	HISTORICAL HUNTING, HARVESTING, AND LOCAL FISHING BYCATCH OF THE JAPANESE MURRELET AT BIROJIMA, MIYAZAKI-KEN, JAPAN - Kuniko Otsuki*	OILED SEABIRD RESCUE AND REHABILITATION: IS IT WORTH IT? - Kyra L. Mills-Parker* and Michael H. Ziccardi
1045	SEABIRD BYCATCH BY GILLNET FISHERIES IN THE REPUBLIC OF KOREA: A PRELIMINARY REPORT FROM THE KOREAN WILD BIRDS SOCIETY - Chang-Yong Choi*	VARIABLES THAT CAN AFFECT OF OIL-AFFECTED SEABIRD SURVIVAL BEFORE, DURING, AND AFTER THE REHABILITATION PROCESS - Michael H. Ziccardi*, Christine V. Fiorello, Nancy L. Anderson, and Kyra L. Mills-Parker
1100	QUANTIFYING DIET OF LAYSAN AND BLACK-FOOTED ALBATROSSES AND THE EFFECT TO THEIR BODY CONDITION USING STABLE ISOTOPE ANALYSIS - Yukiko Inoue*, Sayaka Nakatsuka, Daisuke Ochi, Nobuhiro Katsumata, Yasuaki Niizuma, Hiroshi Minami, <i>et al.</i>	MAGNETIC CLEANSING OF OILED SEABIRDS: WHERE ARE WE AND WHERE TO NEXT? - Peter Dann*
1115	FIELD METABOLIC RATES OF BLACK-TAILED GULLS INCUBATING TWO AND THREE EGGS - Yuna Kume, Niizuma Yasuaki*, Yasuaki Niizuma, Yuichi Mizutani, Mizuho Nagata, and Masaki Shirai	IMPACTS OF MAJOR OIL SPILLS IN CALIFORNIA, 1994-2013 - Hannahrose Nevins*, Laird Henkel, Diana Humple, and Michael H. Ziccardi
1130	ECOSYSTEM SERVICES PROVIDED BY SEABIRDS FOR TERRESTRIAL AGRICULTURE: CORMORANTS FECES CONTRIBUTE FOR RICE CROPS AT PADDY FIELDS NEAR THE COLONY - Kentaro Kazama*, Murano Hirotatsu, Niizuma Yasuaki, and Mizota Chitoshi	LONGEVITY AND DISPERSION OF REHABILITATED SEABIRDS AND WATERFOWL, 1980 – 2010: PRELIMINARY DATA FROM OILED BIRD BAND RETURNS - Eric Woehler, Jay Holcomb, Julie Skoglund, Valeria Ruoppolo, Dave Watts, and Rebecca Duerr*
1145	INTER-COLONY DIFFERENCES IN THE INCUBATION PATTERN OF STREAKED SHEARWATERS IN RELATION TO THE LOCAL MARINE ENVIRONMENT - Takashi Yamamoto*, Nariko Oka, Masaki Shirai, Maki Yamamoto, Nobuhiro Katsumata, <i>et al.</i>	PENGUINS CLEARLY BENEFIT FROM REHABILITATION FOLLOWING EXPOSURE TO OIL - Valeris Ruoppolo*, Ralph E.T. Vanstreels, Eric Woehler, V. Strauss, Nola Parsons, Peter Dann, <i>et al.</i>
1200-1330	Box Lunch - All Welcome! Conservation Committee Meeting with Stan Senner, Vice-Chair for Conservation <i>Sheffield Ballroom 1</i>	

* - presenter

§ - considered for student paper award

FRIDAY 21 February

	Sheffield Ballroom 2	Sheffield Ballroom 3
1330-1500	Special Paper Session (cont'd) Japanese and Korean Seabirds Conveners: Kim Nelson & Kuniko Otsuki	Special Paper Session (cont'd) Oiled Seabird Rescue and Rehabilitation: Is it Worth It? Conveners: Kyra Mills-Parker & Michael Ziccardi
1330	COMPARISON OF THE BREEDING PHENOLOGY AND NEST SITE CHARACTERISTICS IN THE TWO SYMPATRIC MURRELET SPECIES ON GUGUL-DO ISLAND - Chang-uk Park*, Seul-Gi Seo, Jong-Hyun Park, Hyun-Young Nam, Gi-Chang Bing, and Yong-Soo Kwon	OILED WILDLIFE RESPONSE IN NEW ZEALAND: THE C/V RENA INCIDENT - Kerri Morgan*, Helen McConnell, Brett Gartrell, Phil Battley, John Dowding, and Karin Sievwright
1345	POPULATION STATUS OF JAPANESE MURRELETS (<i>SYNTHLIBORAMPHUS WUMIZUSUME</i>) AT BIROJIMA, JAPAN, IN 2011-2013 - Darrell Whitworth*, Harry R. Carter, Yutaka Nakamura, Kuniko Otsuki, and Masayoshi Takeishi	CAUSES OF SEABIRD MORTALITY IN THE IMMEDIATE AFTERMATH OF THE RENA OIL SPILL, BAY OF PLENTY, NEW ZEALAND - Shane Baylis (Monash University)*§, Colin Miskelly, Alan Tennyson, Sue Waugh, Sandy Bartle, Stuart Hunter, <i>et al.</i>
1400	MIGRATORY PATTERNS OF LAYSAN AND BLACK-FOOTED ALBATROSSES STAYING AT THE WESTERN PACIFIC THROUGH SATELLITE TRACKING SURVEY - Daisuke Ochi*, Hiroshi Minami, Takuto Kimura, Muneyoshi Eto, and Ippei Fusejima	IMPACTS OF THE 2001 JESSICA OIL SPILL ON ENDEMIC AND NATIVE GALÁPAGOS BIRDS, REPTILES, AND MAMMALS - Howard L. Snell*, Lynn Loughheed, Cecilia Loughheed, Heidi M. Snell, Maricio Velasquez, and Cruz Marquez
1415	FINE-SCALE DIVING STRATEGIES OF RHINOCEROS AUKLETS FEEDING ON JAPANESE ANCHOVY - Nobuhiko Sato (Graduate University for Advanced Studies)*§, Manjirou Kikuchi, Taiki Adachi, Yutaka Watanuki, Motohiro Ito, and Akinori Takahashi	SEABIRDS, OIL SPILL RESPONSE AND THE US FISH AND WILDLIFE SERVICE: DWH AND CHANGING MANAGEMENT PRIORITIES - Roger C. Helm*
1430	HEAVY METAL CONCENTRATION IN THE EGGSHELLS OF CRESTED MURRELETS ON GUGUL-DO (ISLAND), KOREA - Seul-Gi Seo*, Chang-uk Park, Hyun-Young Nam, and Young-Soo Kwon	No Scheduled Talks
1445	RESEARCH AND CONSERVATION ACTIVITIES ON SEABIRDS DURING 2008-2013 IN SHINAN COUNTY, KOREA - Hyun-Young Nam*, Kyung Gyu Lee, Chang-Yong Choi, Chang-uk Park, and Young-Soo Kwon	
1500-1530	Break	

* - presenter

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PSG Meeting Trivia: The only PSG meeting to be held on the east coast was in 1988, in a joint meeting with the Colonial Waterbird Society.

FRIDAY 21 February

	Sheffield Ballroom 2	Sheffield Ballroom 3
1530-1700	Contributed Papers Tracking and Distribution Session Chair: Gary Drew	No Scheduled Talks
1530	BIODIVERSITY, BIOMASS, AND ENERGY TRANSFER IN THE NORTH PACIFIC: INSIGHTS FROM 40 YEARS OF AT-SEA SEABIRD SURVEY DATA - Gary S. Drew* and John F. Piatt	
1545	INTER-SEASONAL MOVEMENTS AND WINTERING AREAS OF ALEUTIAN TERNS - Michael I. Goldstein*, Sanjay Pyare, David C. Duffy, Susan Oehlers, and Nathan Catterson	
1600	BAHAMIAN SEABIRDS TRANSITION FROM CARIBBEAN TO MID-LATITUDE AND PELAGIC WATERS BETWEEN THE BREEDING AND NONBREEDING SEASONS - Patrick Jodice*, Will Mackin, Yvan Satge, Caroline Poli, Autumn-Lynn Harrison, and Richard Phillips	
1615	SEABIRDS AND OFFSHORE OIL AND GAS PLATFORMS: TRACKING THE FREQUENCY, TIMING AND DURATION OF INTERACTION EVENTS - Robert A. Ronconi*, Jessica R. Stephens, Ingrid L. Pollet, and Phil D. Taylor	
1630	OVERLAPPING SHIPPING TRAFFIC AND SEABIRDS IN THE ALEUTIAN ARCHIPELAGO: A SEASONAL RISK ANALYSIS - Martin Renner* and Kathy J. Kuletz	
1645	DEVELOPING PRACTICAL SOLUTIONS TO REDUCE DISTURBANCE TO SEABIRDS, SHOREBIRDS AND WATERFOWL THROUGH STAKEHOLDER PARTICIPATION - Sage Tezak*	
1715-1830	<i>Special Presentation - Sheffield Ballroom 3</i> "Pretty Slick", a film by James Fox. www.prettyslickthemovie.com	
1715-1915	Aleutian Tern Working Group Meeting (ALTE) - Hammond	
1715-1915	North Pacific Albatross Working Group Meeting (NPAWG) - Egan	
1830-2030	Student Mentoring Session, with Sarah Thomsen, Student Representative <i>Red Dog Saloon, 278 Franklin St</i>	

* - presenter

§ - considered for student paper award

PSG Meeting Trivia: The First Annual meeting was held at the Providence Heights Education and Conference Center in Issaquah, WA.

SATURDAY 22 February

0800-1400	Registration Desk - Lobby	
0845-0900	Final Announcements - Sheffield Ballroom 3	
0900-1000	Plenary - Sheffield Ballroom 3 Anthony J. Gaston, Environment Canada <i>Seabirds are a Lifetime Study</i> 2014 Pacific Seabird Group Lifetime Achievement Award Recipient	
1000-1030	Break	
1000-1015	Silent Auction ends this morning! - Davis	
	Sheffield Ballroom 2	Sheffield Ballroom 3
1030-1200	Contributed Papers Foraging Ecology Session Chair: Carina Gjerdrum	Contributed Papers Contaminants Restoration Management Session Chair: Hannah Nevins
1030	FORAGING ECOLOGY OF MASKED BOOBIES (<i>SULA DACTYLATRA</i>) BREEDING IN THE GULF OF MEXICO - Caroline Poli (Clemson University)*§, Autumn-Lynn Harrison, and Patrick G.R. Jodice	WINTERING EIDERS ACQUIRE EXCEPTIONAL SE AND CD BURDENS IN THE BERING SEA: PHYSIOLOGICAL AND OCEANOGRAPHIC FACTORS - James R. Lovvorn*, Merl F. Raisbeck, Lee W. Cooper, Gregory A. Cutter, Micah W. Miller, and Marjorie L. Brooks
1045	FLEXIBLE FORAGING BEHAVIOUR IN MASKED BOOBIES ACCORDING TO FORAGING LOCATIONS AND ENVIRONMENTAL CONDITIONS - Julia Sommerfeld*, Akiko Kato, Yan Ropert-Coudert, Stefan Garthe, Chris Wilcox, and Mark Hindell	SILENT STRESSORS REVISITED: EVALUATING CADMIUM, MERCURY, AND SELENIUM IN PACIFIC SCOTERS - Jessica H. Behnke (Southern Illinois)*§ and Marjorie L. Brooks
1100	OCEAN THERMAL STRUCTURE AFFECTS FORAGING BEHAVIOR OF THICK-BILLED MURRE - Nobuo Kokubun*, Takashi Yamamoto, Dale M. Kikuchi, Yutaka Watanuki, Alexander S. Kitaysky, and Akinori Takahashi	POLLUTION CANARY - ALBATROSS AS SENTINELS OF MARINE POLLUTION - Wayne Sentman*, A E. Vo, Myra Finkelstein, Scott V. Edwards, Heidi Auman, and Michael S. Bank
1115	TUFTED PUFFINS AS FORAGE FISH SAMPLERS ACROSS THE ALEUTIAN CHAIN - Sarah K. Schoen*, John F. Piatt, Mayumi L. Arimitsu, Gary S. Drew, Erica N. Madison, and Martin Renner	COMPARISON OF RAPTOR DIET AT TWO GLACIAL FJORD SYSTEMS: IMPLICATIONS FOR SEABIRDS - Stephen B. Lewis*, Michelle L. Kissling, and Laura M. Phillips
1130	WHY TIMING IS EVERYTHING: CONSEQUENCES OF RESOURCE MISMATCH FOR A CHICK-REARING SEABIRD AT AN ENERGY CEILING - Paul Regular (Memorial University)*§, April Hedd, William A. Montevecchi, and Gregory J. Robertson	SITTING DUCKS: THE IMPACT OF MOLT TIMING ON THE VULNERABILITY OF SEABIRDS TO A HARMFUL ALGAL BLOOM - Jennifer Ma (University of Washington)*§, Jane Dolliver, and Julia K. Parrish
1145	SEX-SPECIFIC, SEASONAL FORAGING BEHAVIOR BY A MONOMORPHIC SEABIRD - Chantelle M. Burke (Memorial University)*§ and William Montevecchi	SO FAR, THANKS FOR ALL THE CARP – CASPIAN TERNS AT MALHEUR NATIONAL WILDLIFE REFUGE, OREGON - Timothy J. Lawes*, Daniel Roby, Donald Lyons, Yasuko Suzuki, Kirsten Bixler, Allen F. Evans, <i>et al.</i>
1200 -1330	Lunch, on your own	

* - presenter

§ - considered for student paper award

SATURDAY 22 February

	Sheffield Ballroom 2	Sheffield Ballroom 3
1330-1445	Contributed Papers Foraging Ecology Physiology Session Chair: Annette Henry	Contributed Papers Contaminants Restoration Management Session Chair: Jennifer Boyce
1330	THE DIET OF NORTHERN FULMARS, FULMARIS GLACIALIS, IN THE EASTERN BERING SEA AND ALEUTIAN ISLANDS REGION: AN EXERCISE IN THE USE OF BY-CAUGHT MARINE BIRDS IN INVESTIGATIONS OF NATURAL FEEDING STRATEGY - William A. Walker, Shannon M. Fitzgerald*, and Erica L. Donnelly-Greenan	SUCCESS IN RESTORATION OF A BREEDING COLONY OF THE CHINESE CRESTED TERN IN THE JIUSHAN ISLANDS, ZHEJIANG PROVINCE, CHINA - Simba Chan*, Shuihua Chen, Daniel Roby, Stefanie D. Collar, Qin Huang, Donald Lyons, <i>et al.</i>
1345	SEA DUCK TROPHIC ECOLOGY: A REVIEW OF BOTTOM-UP AND TOP-DOWN RELATIONSHIPS IN NEARSHORE MARINE SYSTEMS - Dan Esler* and Paul L. Flint	SEABIRD COLONIES RESTORATION IN THE MEXICAN PACIFIC ISLANDS OFF BAJA CALIFORNIA - Yuri V. Albores-Barajas*, María Félix-Lizárraga, Cristal Hernández-Mendoza, Víctor González-Sánchez, and Alfonso Aguirre-Muñoz
1400	DIETARY OVERLAP AND COEXISTENCE OF TWO SYMPATRIC PISCIVOROUS SEABIRDS: COMPETITION OR SUPERABUNDANT PREY? - Alexa R.H. Piggott*, Donald E. Lyons, and Daniel D. Roby	CHALLENGES ASSOCIATED WITH ERADICATING BLACK RATS FROM FORESTED ISLANDS IN BRITISH COLUMBIA AND LESSONS LEARNED FOR FUTURE ISLAND RESTORATION PROJECTS - Chris E. Gill*, Laurie Wein, Gregg Howald, and Pete McClelland
1415	PARTITIONING OF PELAGIC RESOURCES REVEALED BY GPS TRACKING OF BREEDING RED-LEGGED AND BLACK-LEGGED KITTIWAKES - Rosana Paredes*, Heather Renner, David B. Irons, Rachael A. Orben, Robert M. Suryan, Daniel D. Roby, <i>et al.</i>	INCLUDING IMPACTS ON SEABIRDS IN A LEGAL CASE AGAINST DISCHARGING FISH OIL AT SEA - Patrick D. O'Hara* and Lora Morandin
1430	FEMALES FORAGE FARTHER: BI-MODAL FORAGING DISTRIBUTION OF CASPIAN TERNS BREEDING AT A COLONY IN INTERIOR WASHINGTON - Allison G.L. Patterson*, Donald E. Lyons, Daniel D. Roby, Peter J. Loschl, and Timothy J. Lawes	MONITORING AND MANAGEMENT STRATEGIES FOR RESUMING HARVEST OF GULL EGGS IN GLACIER BAY NATIONAL PARK - Tania Lewis*, Mary Beth Moss, Jamie Womble, and Lisa Etherington
1445	ENERGETICS OF BROWN PELICAN NESTLINGS - Lisa Ferguson, John Speakman, Paula Redman, and Patrick G.R. Jodice*	
1500-1530	Break	
1500-1530	Student Paper Judging Meeting - Hickel	
1530-1630	Closing Plenary - Sheffield Ballroom 3 George Divoky, David Ainley, Alan Springer, and Stan Senner <i>What We Just Learned And What Might Be On The Horizon: Seabird Observations From The Deck Of The Titanic</i>	
1630-1730	Student Paper Judging Meeting - Hickel (if need be)	
1830-2100	Annual Banquet and Awards - Sheffield Ballroom	
2100-2300	Band and Dance! - Sheffield Ballroom	

* - presenter

§ - considered for student paper award

Poster Presentations

ABSTRACTS are available on the PSG website. A hard copy is available for viewing at the Registration Desk.

# - Author	Poster Session & Reception - All Welcome! <i>Thursday 20 February - Sheffield Ballroom 1</i>	Topic
1 - Ainley	CHANGES IN SEABIRD FLIGHT BEHAVIOR WITH ALTERED WIND STRENGTH AND DIRECTION - David Ainley*, David Zajanc, and Larry Spear	Foraging Ecology
2 - Bixler	COMPARISON OF CORMORANT DIETS IN TWO OREGON ESTUARIES - Kirsten S. Bixler*, Lindsay J. Adrean, Donald E. Lyons, and Daniel D. Roby	Foraging Ecology
3 - Cowan	AN ATTEMPT TO PREVENT THE DISAPPEARANCE OF HAWAIIAN PETRELS (<i>PTERODROMA SANDWICHENSIS</i>) AND NEWELL'S SHEARWATERS (<i>PUFFINUS NEWELLI</i>) FROM WEST MAUI, HAWAII - Dave P. Cowan, Mitchell P. Craig*, Gregory C. Spencer, David G. Ainley, and David Zajanc	Restoration and Eradication
4 - Craig	CROWD-SOURCING FOR CASPIAN TERNS AROUND THE WORLD - David P. Craig* and Erynn Rebol	Population Biology
5- Gjerdrum	AT-SEA SURVEYS REVEAL YEAR-ROUND DOVEKIE DISTRIBUTION IN THE WESTERN NORTH ATLANTIC - Carina Gjerdrum*, Sarah Wong, Gregory J. Robertson, and Mark Mallory	Non-breeding Biology
6 - Halpin	REMOTE ACOUSTIC RECORDERS REVEAL THE IMPACT OF INVASIVE RATS ON NOCTURNAL BURROW-NESTING SEABIRDS IN HAIDA GWAI - Luke Halpin (Simon Fraser University)*§ and Carita Bergman	Breeding Biology
7 - Kang	FORAGING HABITS OF GENTOO AND CHINSTRAP PENGUINS REVEALED BY STABLE ISOTOPE ANALYSIS ON KING GEORGE ISLAND, ANTARCTICA - Hwa-Yeon Kang*, Chang-Yong Choi, Han-Kyu Kim, and Woo-Shin Lee	Foraging Ecology
8 - Lamb	COMPARATIVE PERFORMANCE OF CELLULAR AND SATELLITE TRANSMITTERS DEPLOYED ON BROWN PELICANS IN THE GULF OF MEXICO - Juliet S. Lamb (Clemson University)*§ and Patrick G.R. Jodice	Tools and Techniques
9 - Lewison	USING SEABIRDS AS SENTINELS OF ECOSYSTEM HEALTH OF THE SOUTHERN CALIFORNIA BIGHT: PRELIMINARY RESULTS OF SEABIRDS AND COASTAL ENVIRONMENT CONDITION - Rebecca Lewison*, Ken Schiff, Annie Little, and Catherine Zeeman	Contaminants and Marine Debris
10 - Hardesty	A BIOCHEMICAL APPROACH FOR IDENTIFYING PLASTICS EXPOSURE IN LIVE WILDLIFE - Britta Denise Hardesty*, Daniel Holdsworth, Andy Revill, and Christopher Wilcox	Contaminants and Marine Debris
11- Hardesty	A MULTIPLE MARKER APPROACH TO IDENTIFYING ORIGINS OF UNKNOWN PROVENANCE SEABIRDS CAUGHT AS BYCATCH IN FISHERIES - Britta Denise Hardesty and Christopher Wilcox*	Fisheries
12 - Lyons	MAPPING PHYSICAL CHARACTERISTICS OF THE COLUMBIA RIVER MOUTH USING DIVING SEABIRDS FITTED WITH ARCHIVAL GPS AND SENSOR TAGS - Donald E. Lyons*, Adam Peck-Richardson, Daniel D. Roby, and James Lerczak	Tools and Techniques

* - presenter

§ - considered for student paper award

Poster Presentations

ABSTRACTS are available on the PSG website. A hard copy is available for viewing at the Registration Desk.

# - Author	Poster Session & Reception - All Welcome! <i>Thursday 20 February - Sheffield Ballroom 1</i>	Topic
13 - Mami	EFFECT OF AMBIENT AIR-TEMPERATURE ON FOOD INTAKE OF CAPTIVE SUB-ADULT GREAT CORMORANTS - Kazama T. Mami*, Kentaro Kazama, Niizuma Yasuaki, and Hori Yukiko	Special Paper Session: Japanese and Korean Seabirds
14 - Nishizawa	SEABIRD DISTRIBUTIONS AND HYDROGRAPHIC FEATURES IN THE AMCHITKA PASS - Bungo Nishizawa (Hokkaido University)*§, Sei-Ichi Saitoh, and Yutaka Watanuki	Foraging Ecology
15 - O'Reilly	WHAT DO LITTLE PENGUINS DO ALL DAY? WE TRACKED THEM IN WELLINGTON HARBOUR, NEW ZEALAND TO FIND OUT - Kathleen M. O'Reilly*, Jingjink Zhang, and Todd E. Dennis	Tracking & Distribution
16 - Peschon	A SUMMARY OF ALBATROSS BAND RECOVERY DATA IN THE HAWAII DEEP AND SHALLOW SET LONGLINE FISHERIES - John Peschon*	Fisheries
17 - Pyare	SPATIOTEMPORAL PATTERNS AND ENVIRONMENTAL CORRELATES OF LONG-TERM CHANGES IN ALEUTIAN TERN POPULATIONS OF ALASKA - Sanjay Pyare*, Michael I. Goldstein, Heather Renner, Marc Romano, Dave Duffy, Susan Oehlers, <i>et al.</i>	Conservation Biology
18 - Renner	ALEUTIAN TERN UPDATE: IT'S TIME TO BE CONCERNED ABOUT <i>O. ALEUTICUS</i> - Heather Renner*, Marc D. Romano, Sanjay Pyare, and Michael Goldstein	Conservation Biology
19 - Schaefer	EGG VOLUME OF THE BLACK GUILLEMOT (<i>CEPPHUS GRILLE MANDTI</i>) IN ARCTIC ALASKA IS CORRELATED WITH THE PACIFIC DECADEAL OSCILLATION (1978-2012) - Anne Schaefer, Paul M. Lukas, and George J. Divoky*	Special Paper Session: Arctic Seabirds
20 - Smoker	RECENT DEVELOPMENTS IN INDUSTRY BIRD MONITORING PROGRAM FOR ALASKAN FREEZER-LONGLINERS - Janet Smoker*	Fisheries
21 - Springer	CLIMATE CHANGE AND THE NEXUS BETWEEN BOTTOM-UP AND TOP-DOWN CONTROL IN AN OCEAN ECOSYSTEM: AN UNCOMMON CASE OF TOO MANY FISH IN THE SEA - Alan Springer* and Gus Van Vliet	Management, Policy, Planning
22 - Titmus	DISTRIBUTION OF TAHITI PETREL AND HERALD PETREL ON TA'U ISLAND, AMERICAN SAMOA- Andrew Titmus (University of Hawai'i at Manoa)* §, Christopher A. Lepczyk, and N. Suzanne Dauphine	Conservation Biology
23 - Yamashita	WINTERING AREA AND MERCURY IN THE FEATHER OF SHORT-TAILED SHEARWATER - Ai Yamashita (Hokkaido University)*§, Yutaka Watanuki, Yoshinori Ikenaka, Takashi Yamamoto, Yasuaki Niizuma, Richard A. Phillips, <i>et al.</i>	Special Paper Session: Japanese and Korean Seabirds
24 - Young	PLANNING FOR KAUAI'S FIRST PREDATOR PROOF FENCE AT KILAUEA POINT NATIONAL WILDLIFE REFUGE - Lindsay Young, Jessica H. Behnke*, George E. Wallace, Kimberly Uyehara, Shannon Smith, and André F. Raine.	Management, Policy, Planning

* - presenter

§ - considered for student paper award

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PSG Meeting Trivia: Three meetings have been held in locations farther than 5 km from the ocean
- Tuscon, AZ (1980), Sacramento, CA (1994), Napa Valley, CA (2000).

Your Notes

Your Notes

PSG meeting trivia: The 41 annual meetings have been held in four 4 countries, 10 states/provinces, and 25 cities. Juneau is the second Alaskan city for a PSG meeting.



Photo credit: Ross Wanless

2nd WORLD SEABIRD CONFERENCE

“Seabirds: Global Ocean Sentinels”

October 26 – 30, 2015

Cape Town International Convention Centre, Cape Town, South Africa

Hosted by: *World Seabird Union and The African Seabird Group*

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Conference Themes / Session Topics*

- Seabirds as indicators of ocean health
- Functional responses of seabirds to prey depletion
- Outcome based seabird conservation
- Marine spatial ecology and planning
- Marine protected areas
- Boundary currents
- Climate change adaptations
- African seabirds
- Polar seabirds
- Breeding sites

** tentative, subject to change*



Images from 1st World Seabird Conference



Local Organizing Committee Chair: Ross Wanless
Scientific Programme Committee Chair: Peter Ryan



World Seabird Union

PSG Annual Meetings 1974-2014

#	Location (USA, unless indicated)	Meeting Dates
1	Providence Heights Education and Conference Center, Issaquah, WA	6-8 Dec 1974
2	Asilomar Conference Grounds, Pacific Grove, CA	12-14 Dec 1975
3	Asilomar Conference Grounds, Pacific Grove, CA	6 Jan 1977
4	British Columbia Museum, Victoria, BC, Canada	19-21 Jan 1978
5	Asilomar Conference Grounds, Pacific Grove, CA	13-16 Dec 1978
6	Asilomar Conference Grounds, Pacific Grove, CA	23-26 Jan 1980
7	University of Arizona, Tuscon, AZ	19-21 Nov 1980
8	Seattle Aquarium, Seattle, WA	6-9 Jan 1982
9	Hawaiian Regent Hotel, Waikiki Beach, Honolulu, HI ¹	1-3 Dec 1982
10	Asilomar Conference Grounds, Pacific Grove, CA	5-8 Jan 1984
11	Hyatt Regency, Long Beach, CA	13-16 Dec 1984
12	Holiday Inn-Financial District, San Francisco, CA ²	4-8 Dec 1985
13	Universidad Autonoma de Baja California Sur, La Paz, Mexico	10-14 Dec 1986
14	Asilomar Conference Grounds, Pacific Grove, CA	16-20 Dec 1987
15	National 4H Center, Chevy Chase, MD ³	12-16 Oct 1988
17	Royal British Columbia Museum, Victoria, BC, Canada	22-25 Feb 1990
18	Asilomar Conference Grounds, Monterey, CA	23-27 Jan 1991
19	Oregon Institute of Marine Biology, Charleston, OR	15-19 Jan 1992
20	Westin Hotel, Seattle, WA	9-13 Feb 1993
21	Radisson Hotel, Sacramento, CA	26-29 Jan 1994
22	Catamaran Resort Hotel, San Diego, CA	10-13 Jan 1995
23	Victoria Conference Centre, Victoria, BC, Canada	8-12 Nov 1995
24	Marriott, Portland, OR	8-12 Jan 1997
25	Monterey Bay Aquarium, Monterey, CA	21-25 Jan 1998
26	The Inn at Semi-Ah-Moo, Blaine, WA	24-28 Feb 1999
27	The Napa Valley Marriott Hotel, Napa, CA	23-26 Feb 2000
28	Kauai Beach Resort, Lihue, HI	7-11 Feb 2001
29	Santa Barbara Museum of Natural History, Santa Barbara, CA	20-23 Feb 2002
30	Tigh-Na-Mara Resort and Conference Centre, Parksville, BC, Canada	19-22 Feb 2003
31	Hotel Los Arcos, Baja California Sur México, La Paz, Mexico	21-25 Jan 2004
32	Hilton Portland and Executive Tower, Portland, OR ⁴	19-23 Jan 2005
33	Alyeska Prince Hotel and Resort, Girdwood AK	15-19 Feb 2006
34	Asilomar Conference Grounds, Pacific Grove, WA	7-11 Feb 2007
35	Semiahmoo Resort, Blaine, WA	27 Feb - 1 Mar 2008
36	Hakodate Kokusai Hotel, Hakodate, Japan	22-25 Feb 2009
37	The Westin Hotel, Long Beach, CA	17-21 Feb 2010
38	Victoria Conference Centre, Victoria, BC, Canada ⁵	7-11 Sep 2010
39	Turtle Bay Resort, Oahu, HI	7-11 Feb 2012
40	Hilton Portland and Executive Tower, Portland, OR	20-24 Feb 2013
41	Centennial Hall Convention Center, Juneau, AK	19-22 Feb 2014

¹ Joint Meeting of Pacific and Australasian Seabird Groups; first joint meeting of any of the five world's seabird groups

² First Joint Meeting of the Colonial Waterbird Group and PSG

³ Second Joint Meeting of the Colonial Waterbird Society and PSG

⁴ Third Joint Meeting of the Waterbird Society and PSG

⁵ First Meeting of the World Seabird Conference, with PSG

PSG 1974-1990



PSG 1991-2013

