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Chapter Officers and Leaders

President: Jennifer Cooper, MSN, APRN, CNS

President-Elect: Nicole Ringo, MSN/ED, RN

Vice-President: Patricia Esslin, MSN, RN, CNS, CNE

Secretary: Lidia Pusnik, BSN, RN

Treasurer: María Harris-Luna, MSN, FNP-C, CPNP

Governance Chair/Counselor: Catherine Heinlein, EdD, RN, PHN, RD, CDE

Leadership Succession Chair: Lynda Reed, MSN, FNPc

Research Chair: Marilyn Klakovich, DNSc., RN, NEA-BC

Fund Raising Chair: Kathleen Van Allen, MSN, RN, CPN

Immediate Past President: Alison Riggs, MSN, RN, ONC

Newsletter: Erin Warner BSN, RN

Student Leadership Interns: Renata Costa, Monica Sherratt, Michelle Sytsma
Iota Sigma Farewell
By: Alison Riggs, MSN, RN, ONC

Dear Iota Sigma Members:

After two years as president of Iota Sigma chapter my term was up on June 30, 2013. It has been my honor to represent you for Sigma Theta Tau International. I have learned so much about the organization, the faculty and staff at Azusa Pacific University and the valuable contributions Iota Sigma makes to students and community nurses. All that said, I could never have made it through without the invaluable help of the Board members who work so well together in a professional and knowledgeable manner, always seeking to improve nursing.

Our chapter has been celebrating its 25th anniversary all through 2013. This is a real testament to the members and especially the Charter group which gave us such a good foundation and several of those nurses are still active. We thank them again for following the tenets of STTI – providing nursing leadership, knowledge, research, service to the community and sustaining us over the years.

Our current Board and members are dedicated also and I am sure the chapter will continue to be so under our new president, Jennifer Cooper. We welcome her and offer our help and support in the next two years.

Thank you all.

Sincerely,
Alison Riggs MSN RN ONC

President’s Message
By: Jennifer Cooper, MSN, RN

As the incoming president of Iota Sigma Chapter I am honored and humbled to be part of an organization whose members support the learning, knowledge and professional development of nurses committed to making a difference in health worldwide. Together we have made strides in supporting this effort and together we will continue to build an even stronger organization with this global pursuit in mind.

I look to the next two years knowing that my predecessors have set very high standards of leadership. Alison Riggs (2011-2013), Lourdes Salandanan (2009-2011), and Marilyn Klakovich (2007-2009) during my time on the board have demonstrated exceptional vision and tremendous determination to make the society a more valuable part of its members’ lives. We owe them all a great deal of gratitude. Similarly, I would like to acknowledge the contribution of those who have completed their terms on the Board this year: Rose Liegler, Pam Cone, and Marilyn Klakovich. Continued thanks to Vice President Patricia Esslin and Secretary Lidia Pusnik who will remain in their office until next year, as well as Marilyn Klakovich who continues in her role as Research Chair.

Next, we are pleased to welcome our incoming board members: Marcia Harris-Luna as Treasurer, Lynda Reed as Leadership Succession Chair, and Catherine Heinlein as Governance Chair. We will continue to rely on the invaluable contributions of others who deserve our thanks: Faculty at Azusa Pacific University, the Western Conservancy of Nursing History, Phyllis Esslinger, the staff at Citrus Valley Health Partners, and all Iota Sigma members who have generously given of themselves making possible our chapter’s successful outreach events, inductions, and fundraisers.

Please review this newsletter, our website: http://www.apu.edu/iotasigma/, and our Facebook page: Iota Sigma Chapter, Sigma Theta Tau International Honor Society of Nursing for more information on our activities and how to get involved.

Again I would like to thank all of you for your support and involvement in Iota Sigma. I look forward to the next two years and welcome your suggestions and feedback.
Hi everyone!
It is that time of year again, the Iota Sigma Fall Induction Ceremony. The induction of eligible students and community members is always a special and honored time of reflection. The details are as follows:

**Date:** December 13, 2013
Arrive 07:30 AM

**Time:** 0750-0840 AM [Welcome and Banquet Breakfast]
0845-1015 AM [Induction ceremony]

**Location:** East Campus - Upper Turner Campus Center

**Cost:** $30 per person (Inductees and guests)

Mark your calendars now!
Prospective Inductees, please RSVP through your personalized Sigma Theta Tau International email invitation.

Iota Sigma members, community preceptors, community members welcome!
The New Grads Go to Prague!
By: Claire Villaroman, RN, BSN, Danielle Briscoe, RN, BSN & Victoria Pennell, RN, BSN

We had the privilege of presenting our Honors project titled “Evaluation Methods for Study Abroad, Mission Trips, and Service Learning Programs” at Sigma Theta Tau’s 24th International Nursing Research Congress in Prague, Czech Republic. We completed this project for our Nursing Research class in Fall 2012 while studying abroad in South Africa. We were also able to hear from a variety of nursing researchers, educators, and professors during several breakout sessions. Being able to present our project as new graduates and to network with nurses from around the world was an incredible experience!

Attending this conference enhanced our educational experiences because we took part in research that will benefit Azusa Pacific University’s School of Nursing as well as study abroad, mission trips, and service learning programs all over the world. We are blessed to have met people who are dedicated and passionate about research. They have opened our eyes to a different aspect of nursing. We are encouraged to pursue research in the future as we begin our careers as newly graduated nurses.

We also had some time to explore the city of Prague. Some of the locations that we visited include Prague Castle, Wenceslas Square, and Old Town Square. The architecture is unlike anything we’ve ever seen before. Prague is known as “the city of a hundred spires” because of the spires that can be found on many of the buildings. We also enjoyed eating traditional Czech food at various restaurants. We learned so much about the history and culture of the Czech Republic during our stay and have a great appreciation for its beauty.

This experience would not have been possible without all of the people who have supported us along the way! We would like to thank our families, friends, our professor Dr. Marilyn Klakovich, Azusa Pacific University School of Nursing, the Undergraduate Research Department, and our Iota Sigma Chapter for supporting us and believing in us. Claire would also like to thank Sigma Theta Tau for selecting her to receive the Leadership Education Grant. She is grateful that she had the opportunity to attend the tea reception, where she met some of the grant donors. We are truly grateful to be a part of Sigma Theta Tau International. We look forward to attending more conferences in the future!
This year, I was privileged to attend the INRC in Prague with 3 former students who were there to present their work completed as honors students in their BSN research class. I was thrilled that they represented Iota Sigma and APU so well through their presentation, as well as their interactions with others throughout the event.

Iota Sigma had 6 members who presented their work at the Congress.

<table>
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<tr>
<th>Name</th>
<th>Podium Presentations</th>
<th>Poster Presentations</th>
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<tbody>
<tr>
<td>Danielle Briscoe, RN, BSN</td>
<td>Evaluation Methods for Study Abroad, Mission Trips, and Service Learning Programs</td>
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<td>Rachel Graham-Howard, RN, BSN*</td>
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<td>Victoria Pennell, RN, BSN</td>
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<td>Claire Villaroman, RN, BSN</td>
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<td>Marilyn Klakovich, DNSc, RN, NEA-BC</td>
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<td>Linda L. Hansen-Kyle, PhD, RN, CCM</td>
<td>The Transition Experience of Spousal Caregivers of Congestive Heart Failure Patients</td>
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<td>Patricia Roth, EdD, RN</td>
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<td></td>
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<tr>
<td>Rosemary Mwangi RN, BS, MSN, PhD</td>
<td>King’s Conceptual System Theory in Understanding Social Cultural Perceptions of Kenyan Women with HIV</td>
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</tbody>
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*Unable to attend

In addition to attending plenary sessions, multiple presentations, and poster sessions, I attended the International Induction (where 18 nurse leaders from 9 different countries were inducted) and Welcome Reception, and the International Nurse Researcher Hall of Fame Induction. The link below will take you to more information about the extraordinary research careers of the 19 inductees, who represented 6 different countries including 11 different states in the US.

http://www.nursingsociety.org/Media/Pages/NRHOF2013.aspx
Report from Bohemia…Continued…

Marilyn (standing left) and group of nurses from China and Korea including International Nurse Researcher Hall of Fame inductee Yeur-Hur Lai, PhD, RN, professor, School of Nursing, National Taiwan University (seated right).

It was an amazing experience to have opportunities to hear about research and evidence-based projects presented by researchers from 48 different countries. There were almost 900 nurses at this event, and the opportunities to network were boundless! For a more detailed “Taste of Prague” visit [link]

Consider attending the 25th International Research Congress in Hong Kong, July 24-28, 2014 to share in an amazing experience.

Note: To download the congress book for 2013, please click on [link]

Marilyn Klakovich, DNSc., RN, NEA-BC
Research Chair, Iota Sigma
My Experience in Prague
By: R. Mwangi

Traveling to Prague was a great adventure. A retired colleague and I decided to Euro rail and visit a fellow colleague deployed and serving in Landstuhl, Germany where wounded soldiers in war are first treated. Visiting with Lieutenant Patricio was both refreshing to her and us, felt like a missionary visit on our journey to Prague. At the Landstuhl Military Hospital we had wonderful interactions with nurses serving our country there which was an honor. James served in the same place 25

Attending the induction ceremony for the International Nurse Researcher Hall of Fame was an inspiration. During the panel discussion the aspect of mentoring resonated with me the most as the scholars related their achievements in relationship to others whom had believed in them and fanned the flame to Nursing Scholarship. Inductee, Dr. L Rispel (left) from S. Africa, with Rosemary and H. Klopper (STTI, President elect).
Danielle, Rachel, Victoria, and Claire lead by Dr. Klakovich did an outstanding podium presentation on evaluation instruments they have used during various mission trips and service learning programs. The new grads were also celebrating having passed their board exams just before this trip. Congratulations!

A few highlights:
1. A need to tie cost effectiveness to nursing research.
2. A need for meta-analysis studies alongside evidence based practice.
3. We do not empower women but we help women tap into the power they have! (Stated in relation to women’s health)
4. Identify a purpose, make choices that align to that purpose and do something daily related to the purpose. What would you do in the next 3-5 years if you knew that you would not fail?
Picture from Australia 2012 of Rosemary & Tammy, revolving entrance door Hilton Prague. Pleasant Surprise!

Dinner at Charles Bridge: L>R; Linda, Marilyn, James & Rosemary

Dinah & Rosemary and friends from S. Africa

A. Al-Rubaiey, UAEmirates, S. Prevost, STTI President & R. Mwangi
Studying Abroad in Hangzhou, China
By: Emily Emminizer, Iota Sigma Member

This past spring, I had the opportunity to study abroad in Hangzhou, China with six other students from Azusa Pacific University. I would have never expected to live in Asia for two months, or even travel there, but God opened the door wide so I walked through it. We studied Mandarin intensively, had two full days of clinicals twice a week, took classes online at APU, went to weekly lectures on health care in China, went on cultural excursions, became involved with the local church, and made sure to take time to rest too. As most of us did not know Mandarin very well before our arrival, we went through this experience as an intimate community of seven people. We did not know each other beforehand, but quickly became like a family. If I were to summarize my trip in three words it would be full of growth. I grew spiritually, clinically, academically, professionally, interpersonally, and emotionally. This growth wouldn’t have happened without the wonderful six other students standing by my side as we looked to God and experienced it all: struggles and victories, tears of sorrow and tears of joy, conflict and resolution, weakness and strength. We all came out stronger, having a greater understanding of our identities as individuals and children of God.

One of the most impacting days for me in China was during my preceptorship in the ER. One moment all of the nurses were talking about their weekend plans, and the next everyone was systematically rushing to care for a 35-year-old male with second-degree chemical burns covering 18% of his face and arms. This husband and father was completely healthy, working efficiently at his job, and suddenly he finds himself lying on a hospital bed, unable to focus on anything but the pain. It’s as if everything is moving in slow motion: he moans aloud as constant waves of pain from his wounds hit him, we (my preceptor and I) start an IV on an intact area of skin on his forearm, and the doctors assess and evaluate the burns. Unable to speak and barely able to open his eyes, we have to rely on non-verbal communication with our new patient. I see that the pain chains him down, as he lies there seeking relief. I stand at the head of the bed, washcloth in hand, and pray as I simply help wipe his mouth when he needs to cough up his sputum. As the tears occasionally streamed down his face, which is an extremely vulnerable act within males in Chinese culture, I was humbled to be the one to wipe them off his cheeks, maintain his trust, and guard his dignity. After all the appropriate nursing care was completed, I stood there thankful that I could pray and provide basic care, as otherwise I would have been helpless. As a Christian nurse, one of the most life changing and impacting tools I have is the power to pray in the name of Jesus Christ. I felt his pain and was suffering with him, in an intangible but very real way, and I could lift up that burden to my Heavenly Father and intercede on his behalf.
I share this experience because it is a great reminder of the unique gift that nurses, especially Christian nurses, have to be in a position of compassionate service during some of the most sacred moments in a person’s life. Compassion and love should never be underestimated as characteristics in the heart and hands of a nurse. Nurses should strive to not see their job as “just another day at work”, but rather remember that each workday is a glimpse into the reality of another person’s life. The patients do not go home at 7pm; their scars do not disappear when they walk out of the hospital. Nurses have the opportunity to be a vessel of comfort in a situation that is flooded with pain.

As time passes, I am acutely cognizant of how the many lessons I learned in China act as springboards in my development as a person, woman, Christian, and nurse. These lessons are not static, but rather are ever-evolving as God continues to enlighten my understanding. Perhaps the greatest lesson that I learned while I was there is that He transcends culture, His love is not bound to a certain human language, and He is with us no matter where our feet may go. As a woman of God, Christian nurse, leader, and ambassador for Christ, I am now more aware than ever that I will always need God no matter where I am in the world. I have come to learn that it is not opportunities or experiences themselves that cause growth, but rather the condition of the heart before God. If a person seeks opportunities to grow with a humble and willing heart, whether in China or Azusa, God will always provide opportunities for development. With this growth, consequently, comes a deeper, richer walk with Him and more abundant life. So although I have returned from my wonderful adventure in China, the adventure continues as I seek growth with Him. God is the source of life and growth, and I praise Him that He is with me wherever I go.
Phyllis Esslinger Endowment
Azusa Pacific University General Endowment
By: Pam Cone, PhD, RN

The Endowment is named after Professor Emeritus Phyllis Esslinger, a California nurse with a high interest in our local nursing heritage, who has worked at APU for many years and is founder and director of the Western Conservancy for Nursing History.

Each year, the monies raised by the PE Endowment provide one scholarship associated with the California based Western Conservancy of Nursing History that Iota Sigma Chapter helps sponsor. The scholarship, awarded yearly at the Fall induction each, is different each year, based on annual earnings that are made available for IS Chapter to award. The amount is around $1000, sometimes a little more, and funds are disbursed directly to the student’s account from the University Endowment.

In Fall 2012, we awarded Abigail Ireland the Phyllis Esslinger Scholarship for this year, and she contributed to the WCNH by writing a paper on a California Nurse, Dr. Connie Brehm, an APU professor who heads up the NP managed Homeless Clinic. In all, we have awarded five scholarships from the endowment; we have four papers written by student recipients and one 30+ hour volunteer service by the 2011-2012 recipient, Marcia Harris-Luna.

At this moment, there is $25,535 in the portion of the APU Endowment that belongs to the IS Chapter, an amount that grows slowly as a percentage of the earnings is added to the main fund each year and as any PE Endowment designated donations are received by IS. Direct giving to the endowment has been less than $1000 over the last few years, so we need to work on increasing contributions to this fund. It would be wonderful if our constituents would give directly to the PE Endowment so that it can grow more rapidly and become a more substantial award.
Upcoming Events

**Odyssey 2013: "Voices of Nurses: Past, Present, and Future"**
Please see the Odyssey brochure on pages 13-14 and plan to attend. A number of Iota Sigma members will be presenting their research or innovative projects in both podium and poster sessions. Hope to see you in San Diego!

![Image](image_url)

**2014 Research Award**
If you are planning to do a research study and need some funding to assist with your study, please plan to apply for the 2014 Research Award to be presented at our May 2, 2014 induction. The application deadline is February 28, 2014 and the application information is available on our website at: [http://www.apu.edu/iotasigma/research/](http://www.apu.edu/iotasigma/research/).

You can also obtain an electronic copy of the application by emailing mklakovich@apu.edu

The award amount for 2014 is $1000. So plan now to apply, and let me know if you have any questions or need assistance.

Submitted by:
Marilyn Klakovich
Chair, Research Committee

**2013 Biennial Convention**
It's not too late to sign up for STTI’s 42nd Biennial Convention from 16-20 November 2013 in Indianapolis, Indiana, USA.

This convention we will celebrate STTI's 90th anniversary with more than 2,000 colleagues representing over 30 countries. We will share our knowledge with one another to advance nursing and to help improve the health of the world’s people. The convention, which is themed “Giving Back to Move Forward,” is an exciting environment to engage in new relationships through networking with nurse leaders from our global nursing community.

The convention showcases programs and special events that celebrate and honor nurses and friends of nursing. You can expect more than 190 concurrent sessions, more than 30 special sessions, multiple plenary sessions and 12.5 hours of Continuing Nursing Education Contact Hours (CNE). Information about these events can be found at [http://www.nursingsociety.org/STTIEvents/BiennialConvention](http://www.nursingsociety.org/STTIEvents/BiennialConvention). If you have any questions regarding the convention, please contact headquarters at 888.634.7575 (U.S./Canada toll free) or +1.317.634.8171 (International).
# Honor Society of Nursing Odyssey 2013 Conference

"Voices of Nurses: Past, Present, and Future"

October 31ST - November 1, 2013
San Diego, CA

## PROGRAM

Research and Innovative Sessions: Speakers identified after abstracts reviewed.

### THURSDAY PROGRAM  10/31/13

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<tr>
<td>7:30-8:30</td>
<td>Registration &amp; Continental Breakfast</td>
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<td>Exhibits &amp; Posters</td>
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<tr>
<td>8:30-8:45</td>
<td>Welcome</td>
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<td>8:45-9:45</td>
<td>KEYNOTE – Heather Young, PhD, RN, FAAN</td>
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<td>9:45-10:15</td>
<td>Break (Exhibits, Posters &amp; Refreshments)</td>
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<td>10:15-11:45</td>
<td>Breakout Session I</td>
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<td>A. Research Session</td>
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<td>B. Innovation Session</td>
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<td>12:00-1:00</td>
<td>Lunch (Exhibitors &amp; Posters)</td>
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<td>1:00-2:30</td>
<td>Breakout Session II</td>
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<td>A. Research Session</td>
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<td>B. Innovation Session</td>
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<td>2:30-3:00</td>
<td>Exhibits, Posters &amp; Refreshments</td>
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<tr>
<td>3:00-4:00</td>
<td>Movie: Nurses: If Florence Could See Us Now</td>
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<td>4:00-4:30</td>
<td>Debrief the Day, Raffle</td>
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### FRIDAY PROGRAM  11/1/13

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<td>Exhibits &amp; Posters</td>
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<tr>
<td>8:30-8:45</td>
<td>Welcome</td>
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<td>8:45-9:45</td>
<td>KEYNOTE – Jim D’Alfonso, MSN, RN</td>
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<td>9:45-9:55</td>
<td>Poster Awards</td>
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<td>9:55-10:15</td>
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<td>Breakout Session I</td>
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<td>A. Research Session</td>
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<td>12:00-1:00</td>
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<td>Breakout Session II</td>
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<td>A. Research Session</td>
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<td>B. Innovation Session</td>
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<td>2:30-3:00</td>
<td>Break (Exhibits, Posters &amp; Refreshments)</td>
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<tr>
<td>3:00-4:00</td>
<td>SPEAKER: Jane Georges, PhD, RN</td>
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<td>4:00-4:30</td>
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"Voices of Nurses: Past, Present, and Future"

October 31-November 1, 2013

Conference Objectives:
1. Promote the goals of the society, to increase nurse leaders and scholars.
2. Provide an avenue for dissemination of research, clinical, and educational topics.
3. Utilize role models to encourage excellence in students and colleagues of nursing.
4. Increase networking opportunities and promote collegiality among local chapters.
5. Encourage nurses to spread their influence globally to effect positive health care change.

HOTEL INFORMATION:
Handley Hotel Mission Valley
950 Hotel Circle North San Diego, CA 92108

For reservations, call 800.676.6567 to book, modify, or cancel a reservation. You may also book your reservation online at www.sd.handley.com/. The convention room rate is 110.00 plus tax. Group Convention Promo Code is STTI2013. Parking will be 10.00 per day. If room block is sold out contact marlene.s.ruiz@kp.org to investigate increasing the size of the room block.

Note: Dress is Business casual. Due to the lack of control for the ambient temperature, we recommend you bring a light sweater or jacket for your comfort.

Registration: Online registration is available at http://odyssey2013.eventbrite.com/. If you choose to register via mail tear off and return this section with registration fee. Everyone who registers with a postmark by October 5, 2013 will get their name entered into a contest drawing. The winner will get their registration fees reimbursed. Make checks payable to: So. Ca. STT Research Fund. Mail to Marlene Ruiz, 1574 Penasco Rd., El Cajon, CA 92019. For same-day registration, add $25.00 per day for registration fees.
For more information about the conference check web page http://gammagamma.sdsu.edu/ or http://www.omicrondelta.net/ or e-mail: marlene.s.ruiz@kp.org

Cancellation Policy: No refunds for cancellations after October 18, 2013.

Name ____________________________________________
Address_________________________________________________________________________
_________________________________________________________________________
Phone: (Home) ____________________________
(Work) ___________________________________
E-mail: ________________________________
STTI Member Yes ☐ No ☐
Chapter _________________________________
If student, identify school: _________________

How did you hear about Odyssey 2013? E-mail _____ Chapter Website _____ STTI Website _____ Flyer _____

Check one: Thursday  Friday  Both days
RN $150 ☐ $150 ☐ $275 ☐ Student
$ 75 ☐ $ 75 ☐ $140 ☐ Retired RN $80
☐ $80 ☐ $150 ☐ (Non-working)

Includes program proceedings, continental breakfast, lunch, breaks and contact hours.
Provider approved by the California Board of Registered Nursing, Provider #00788 for 7.5 contact hours/day

Vegetarian Meal Please ______________________

First time attendee? Yes _____ No _____
SAVE THE DATE!
The 10th Annual School of Nursing Research Symposium: “Applying Research to Practice in a Changing Health Care Environment”
Thursday, April 3, 2014
8:30 AM- 3:00 PM
Cosponsored by School of Nursing and Iota Sigma

Celebrating 25 Years
“Promoting scholarship, leadership, and service”
Members in the News

An article written by Professor Sharon Favazza, School of Nursing, was published in a journal.


A podium presentation was given by Professor Patricia Esslin, School of Nursing, at a regional conference.

**Esslin, P.** (2013, March). *Simulation learning-teaching attitude, skills, and knowledge (SIMLTASK) scale feasibility pilot.* Podium presentation at the 2013 Pacific Institute of Nursing Conference. Honolulu, HI.

The expertise of Dr. Felicitas Dela Cruz, School of Nursing, Director, Center for the Study of Health Disparities, was tapped in her role as a reviewer for training grant proposals for a federal department.

**Dela Cruz, F.** (2013, April 1-3). [Panel reviewer for training grant proposals]. Advanced Education Nursing Traineeship (AENT) [grant program], Division of Nursing, Bureau of Health Professions, Health Resources and Services Administration (HRSA), U.S. Department of Health and Human Services.

A presentation prepared by Dr. Felicitas A. dela Cruz, Dr. Marilyn Klakovich, Ms. Shirley Farr, and Ms. Phyllis Esslinger, all of the School of Nursing, was given at a regional conference.


An article written by Dr. Catherine Heinlein, School of Nursing, was published in a journal.

An article written by Dr. Felicitas Dela Cruz and Dr. Catherine Heinlein, both of the School of Nursing, and a colleague, was published in a journal.


**PUBLICATIONS**

A previously published book, written by Dr. Vicky Bowden, Vice Provost of Undergraduate Programs, and a colleague, has been published in another language.


An article written by Dr. Pamela H. Cone, School of Nursing, and a colleague, was published in a journal.


A paper written by Dr. Pamela Cone, School of Nursing, and a colleague, was presented at a regional conference.


An article written by Dr. Pamela H. Cone and Dr. Leslie Van Dover, School of Nursing, was published in a journal and a second article by Dr. Cone and a colleague was published in an advance online journal issue.


An award was granted to Dr. Anna Hefner, School of Nursing, for her paper presentation which was based on her dissertation.

**Hefner, A.** (2012, November). Midlevel Professional Award, American Association for the Study of Liver Disease, for the presentation, *Facilitating lifestyle changes to manage progressive fatty liver disease.*

**PRESENTATIONS**

A podium presentation prepared by Dr. Anna Marie Hefner, School of Nursing, based on the study completed for her dissertation, was presented at a national conference.

**Hefner, A.** (2012, November). *Facilitating lifestyle changes to manage progressive fatty liver disease.* Presentation at the annual conference of the American Association for the Study of Liver Disease. Boston, MA.

Abstract:

**Background:** With the increase in obesity in the United States, and the rising incidence of metabolic syndrome, more patients are presenting with abnormal liver injury tests related to fatty liver. There is no standard therapy for fatty liver disease other than lifestyle changes to combat the metabolic derangement and avoid the progression to NASH/cirrhosis. The aim of this study was to describe the relationship of the intensity in care management by the nurse practitioner on education and support of lifestyle changes to improve metabolic parameters in patients with fatty liver. **Methods:** Seventeen patients were identified with a diagnosis of Fatty Liver disease-13 adult patients and 4 pediatric patients. Patients were identified through elevated liver enzymes, and exclusion of all other possible liver diseases. Patients were followed every 2-3 months initially and then tailored to the individual patient needs resulting in 1 month to 3 month follow up. Each structured clinic visit lasted 30-45 minutes to assess patients and discuss lifestyle changes. **Results:** Thirteen adults-8 females (62%) and 5 males (38%), age range 29-72 years and four pediatric subjects-3 males and 1 female, age range 12-17 years were in the study. The adult participants had an initial BMI of 30.93±3.7, AST 49.5±27.8, and ALT 71.5±43.8, while the pediatric participants had a BMI of 33.33±6.3, AST of 42.3±14, and ALT 66.65±36.6. During the follow-up period, the adult participants self-selected to increase frequency of visits to monthly or every other month for self-accountability. Diet changes were more difficult in adults since 85% of the adult’s skipped either breakfast or lunch. The adult averaged 4 medications-including antihypertensives, and cholesterol medications. The pediatric participants continued with every 3 months but increased their physical exercise to 5 times a week-1-1/2 hours per session. Their diets included more fruits and vegetables previously lacking. By self-report, they made better choices through the school lunch program. The BMI remained relatively stable for 6 months for both groups, though at three months ALT and AST was normal in the adult group in 55% and 44% respectively. In contrast, 100% of the pediatric participants achieved normal AST and ALT levels by 3 months.
Adolescent growth in height facilitated the mild changes in the BMI, whereas in the adult, the BMI changes were based on actual weight loss. Conclusions: Outside clinical trials: (1) management of fatty liver is feasible; (2) improvement occurs with dedicated time and a contract with the patient-listening to their individual needs, (3) albeit chemical and metabolic improvement occurs, it is slow, and (4) pediatric patients require full participation and family support in lifestyle changes of the patient to achieve the goals of therapy. The trial showed to be labor intensive and this model could be the most cost effective.

A poster prepared by Dr. Anna Marie Hefner, Dr. Catherine Heinlein, and Dr. Renee Pozza, School of Nursing, and two colleagues, was presented at a national conference.


DEGREE EARNED

A doctoral degree was earned by Dr. Anna Marie Hefner, School of Nursing.


Dissertation Abstract

“Cirrhosis is the 12th leading cause of death in the United States. It is well documented end stage liver disease drives a patient to a catabolic state thus depleting them of essential nutrients. Malnutrition is often unrecognized and untreated in outpatients. Though BMI, nutritional intake, anthropometric measurements have been used in clinical trials, there still remains no standard nutritional assessment.

The purpose of this dissertation was to (1) identify the incidence of malnutrition in patients with compensated and decompensated liver disease utilizing defined nutritional parameters (Subjective Global Assessment, anthropometric measurements, hand grip strength, and laboratory values) and (2) correlate with care (hospital visits, physician appointments, outcome and quality of life) secondary to viral hepatitis, metabolic and alcoholic liver disease.

The conceptual framework underlying this study is derived from the literature based on the domains of liver function, nutrition, and malnutrition. Nutrition includes the chemical substances in food utilized by the body for growth, maintenance, and repair: the intake, digestion, and assimilation and utilization of nutrients for tissue maintenance and energy provision.

There is no gold standard for proper nutritional assessment of patients diagnosed with liver disease; notably, the traditional assessment tools are invalid with end-stage liver disease. Ascites, edema, and diuretics cause fluctuations in weight and weight changes. Cirrhosis of the liver drives a patient to a catabolic state, thus depriving them of essential nutrients. Simple and easily applied methods are needed to identify the patients approaching the state of malnutrition.

Study findings presented in three papers provides a major contribution in discriminating the nutritional parameters of different etiologies of cirrhosis leading to malnutrition.”