



St. Paul University Philippines
Tuguegarao City, Cagayan 3500

6TH SPUP INTERNATIONAL INTERDISCIPLINARY RESEARCH CONFERENCE

*Theme: "Research for Educational, Sustainable, and Environmental
Actions for Resilient Community and Humanity"*

10-12 August 2023
Global Center, St. Paul University Philippines
Tuguegarao City, Cagayan

Co-Hosts:



AIC | AMERICAN
INTERNATIONAL
COLLEGE

ABOUT 6TH SPUP IIRC

BRIEF BACKGROUND

To foster systematic investigation and study of certain phenomena and their effects towards improvement and development, and to establish facts and reach new conclusions, St. Paul University Philippines (SPUP) embraces this scientific and academic endeavor to better hone the research skills of educators and practitioners. On its 6th conference, SPUP gears towards providing inventors and research enthusiasts with technical skills in research.

This conference shall offer research services that will allow investigators and scholars to provide scientific outputs that are relevant and innovative, and which can generate new ideas with high utility value and solutions to real-life problems. Creativity and critical thinking are taken into consideration when venturing into research; thus, this conference will open opportunities for researchers to provide new technologies and generate new knowledge and effective solutions.





**6TH SPUP
INTERNATIONAL
INTERDISCIPLINARY
RESEARCH CONFERENCE**

CO-HOSTS

MAKING A DIFFERENCE
GLOBALLY



**6TH SPUP
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MESSAGES

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Message



On behalf of St. Paul University Philippines, we are delighted to host the 6th SPUP International Research Conference, together with the co-hosts. With enthusiasm and joy, we welcome all the presenters and participants from different schools and in various countries. Indeed, this is a milestone convergence of interdisciplinary scholars and researchers who pursue research-based solutions and innovations anchored on education, technology, and sustainability. The theme and objectives portray the bottom line of the most pressing concerns of people and society. In this conference, we can touch base with the recent scientific, humanistic, educational, technological, environmental, and sustainable solutions and leading innovations.

Research in the 21st century catapults rapid and advance developments and innovations in all aspects of life. We respond to local and global challenges through empirical studies that provide solutions to problems and find better ways and means of doing things. Today, more than ever, we need to engage in research as a priority.

Apparently, this opportunity for sharing and networking will bolster collaborative undertakings and pave the way for breakthrough research endeavors. In this era of knowledge economy and global connectivity, we need to create and transfer knowledge that will have universal relevance and value to people and nations.

May the learning and insights you gain propel you towards greater achievements, productivity, and significant research undertakings across disciplines beyond borders. It is my prayerful hope that this research conference will have profound impact and fruitful results in your academic undertakings and professional practice. Let us continue to make a difference through research!

SR. MERCEDITAS ANG, SPC
President
St. Paul University Philippines

Keynote Speaker

Charlotte B. Royeen, OTR/L, FAOTA, FASAHP, FNAP, PhD, is the Dean of the College of Health Sciences, Rush University in Chicago, Illinois, USA. She received her Master of Science in Occupational Therapy at Washington University School of Medicine and her Doctor of Philosophy from Virginia Polytechnic Institute and State University. Dr. Royeen has received many honors and awards recognizing her for her work in the field of occupational therapy, including the Eleanor Clarke Slagle Lectureship Award – the highest scholarly award bestowed by the American Occupational Therapy Association. Most recently, she was named the A. Watson Armour III and Sarah Armour Presidential Professor at Rush University. This honor recognizes special excellence as an academic leader in the biomedical sciences. Dr. Royeen has published more than 40 books and book chapters and 75 journal articles, and she brings a wealth of leadership experience to the college and to the entire Rush University community.

CHARLOTTE ROYEEN, OTR/L, FAOTA, FASAHP, FNAP, PhD

Dean, College of Health Sciences
Rush University
Chicago, Illinois, USA



Plenary Speaker

Dr. Tanioka earned his Ph.D. from Kochi University of Technology, Japan (2002) and PhD in Nursing Science from St. Paul University Philippines (2021). He also obtained his Master of Science in Nursing from St. Paul University Philippines in 2018, M.A. from Shikoku Gakuin University (1999), and BEd. from Meisei University Japan (1997). Following graduation from Kochi Prefectural Nursing School and licensure as Registered Nurse (1988), he worked for 11 years in a Psychiatric Hospital in Japan. He found his passion for nursing research focused on studying human technologies, integrating science and technology within the perspective of nursing caring science. He continues to contribute immensely towards the clarification of technological competency as caring in nursing and create high quality care processes within varying technological environments. His continuing engagement in nursing towards enhancing interdisciplinary and collaborative endeavors for nursing is focused on caring, exemplified as the integration of science and technology through research on human technologies, practice and education. He is a member of the Editorial Boards of the Open Journal Health, the International Journal of Nursing & Clinical Nursing Practice, the Journal of Art and Aesthetics in Nursing and Health Sciences, the International Journal for Human Caring, and the Journal of Health and Caring Sciences. He is a recognized Fellow of the American Academy of Nursing (FAAN). Dr. Tanioka was visiting scholar at the Christine E. Lynn College of Nursing, Florida Atlantic University. He is known for his Transactive Relationship Theory of Nursing (TRETON): A Nursing Engagement Model for Persons and Humanoid Nursing Robots, and the electronic health administration system entitled, Psychiatric Outcome Management System (PSYCHOMS®). His most recent book "Nursing Robots" for the elderly was released in March 2017.



TETSUYA TANIOKA, RN, PhD, FAAN

Professor of Nursing, Department of Nursing Outcome
Management
Tokushima University, Japan

Plenary Speaker

Honorable Sayed Jalal Karim is the Former Ambassador and Special Envoy for the President of the Islamic Republic of Afghanistan to Saudi Arabia from 2016 to 2020 and concurrently served as non-Resident Ambassador of Afghanistan to the Kingdom of Bahrain (2017-2020). He also served as mediator of successful peace talks between the Afghan Government and other institutions/governments and Taliban.

Hon. Karim founded the Abdullah bin Zubair School in Mecca in 2000 for the education of orphans of the Afghan community residing in Saudi Arabia. He is also the founder and owner of Radio Afghanistan and the Voice of Afghanistan which was aired from London in 2001. Currently, he is a Board Member and CEO of Jubail Pharma Company Ltd and a Board Member of Marasel Group both in Al-Khobar, KSA.

At 8 years old, he received the Higher Secondary School Certificate. When he was 9 years old, Hon. Karim received a scholarship from Columbia University, USA for his university degree. He was also awarded scholarship by the Afghan government at Moscow University. He earned a master's degree in political science from Seton Hall University, USA.



HONORABLE SAYED JALAL KARIM

Afghan Ambassador to Saudi Arabia



Sri Wahyuni, S.Pd., M.Kes., Ph.D is currently the President of the Institute of Health Sciences Budi Luhur Cimahi after serving as the institute's Vice President of Relationship and Networking and Vice President of Administrative and Finance respectively. Dr. Sri Wahyuni also served as Quality Assurance Officer and Public Relations Officer of the Foundation of Pambudhi Luhur Cimahi in West Java, Indonesia. Moreover, she had been the Director of Budi Luhur International Network for Education from 2012 up to the present. Apart from these, Dr. Sri Wahyuni has served in various organizations in Indonesia. As a Nurse, Dr. Sri Wahyuni had been an officer and has worked as consultant in various nursing organizations and institutes in Indonesia and has presented and published research articles on nursing and public health in Thailand, India, Malaysia and Japan among others.

SRI WAHYUNI, S., PD., M.KES., PhD

Director, Budi Lohor International Network for Education in Indonesia



Plenary Speaker

Leodoro J. Labrague, RN, DM, PhD, CNE, is a Clinical Assistant Professor at the renowned Marcella Niehoff School of Nursing, Loyola University Chicago. Holding two doctorate degrees, a Doctor of Philosophy in Management and a Doctor of Philosophy in Nursing Science, he exemplifies a multidisciplinary approach to research and scholarship.

With over 15 years of experience, Dr. Labrague has made significant contributions to the fields of nursing education and research. He began his teaching career in the Philippines, where he dedicated seven years to refining his skills and expertise in nursing education. Seeking to broaden his horizons, he spent another seven years teaching in the Sultanate of Oman, gaining invaluable cross-cultural experiences and collaborating with researchers from various countries.

Dr. Labrague's research contributions are highly regarded, particularly his development of two important research scales: the Toxic Leadership Behavior Scale for Nurse Managers and the Lockdown Fatigue Scale. These scales have gained widespread recognition and utilization among nursing professionals and researchers. Additionally, he has actively collaborated with researchers from Saudi Arabia, India, Oman, Greece, Nigeria, Australia, the Philippines, and the United States, expanding the impact of his research globally.

As a prolific writer, Dr. Labrague has authored and co-authored over 100 articles in high-impact nursing journals, accumulating an impressive citation count of over 8000. This distinction solidifies his position as one of the highly cited Filipino nurse researchers. Moreover, his research has garnered international recognition, earning him a prestigious spot among the Top 2% Scientists in the World based on Sandford's list for two consecutive years (2021/2022). Dr. Labrague's commitment to advancing nursing research and practice extends beyond his own publications. As an Associate Editor of Nursing Open at Wiley Publishing, he actively shapes the future of nursing by contributing to the publication and dissemination of cutting-edge research.

LEODORO J. LABRAGUE, RN, DM, PhD, CNE

Clinical Assistant Professor
Marcella Niehoff School of Nursing, Loyola
University Chicago



PROGRAM OF ACTIVITIES

DAY 0: AUGUST 09, 2023 (WEDNESDAY)

TIME	ACTIVITY	SPEAKER / VENUE
8 AM - 5 PM	Pre-Conference Seminar Workshop: "Research Design, Innovation and Publication"	Leodoro Labrague, PhD, RN For SPUP Faculty Members Venue: 3rd Floor, Global Center

DAY 1: AUGUST 10, 2023 (THURSDAY)

TIME	ACTIVITY	SPEAKER / VENUE
7:30 AM	Registration	
8:30 AM	Opening Program Opening Prayer (Doxology) Philippine National Anthem	SPUP SPUP
	Acknowledgement of Participants	Jeremy Godofredo Morales, PhD Conference Chair
	Welcome Message	Sister Merceditas Ang, SPC University President
	Keynote Speech	Charlotte Royeen, PhD Dean, College of Health Sciences Rush University, Chicago Illinois, USA
	Plenary Talk 1: "Innovation, Interdisciplinary and International Collaborative Research" Photo Opportunity	Tetsuya Tanioka, RN, PhD, FAAN Professor of Nursing, Department of Nursing Outcome Management Tokushima University, Japan
8:30 AM	Plenary Talk 2: "Peace and Prosperity towards Global Integration" Photo Opportunity	Honorable Sayed Jalal Karim Afghan Ambassador to Saudi Arabia
10:-10:30 AM	Health Break	
10:30 AM- 12 AM	Concurrent Session 1	Break-out Rooms
12 – 1:30 PM	Lunch Break	Exhibit Area Ground Floor, Global Center
1:30-3:15 PM	Concurrent Session 2	Break-out Rooms
3:15- 3:45 PM	Health Break	
3:45-5:30 PM	Concurrent Session 3	Break-out Rooms
	Innovation Showcase	Employability / Entrepreneurship Laboratory; AI and Robotics Laboratory
6:00 PM	Welcome Dinner and Cultural Presentation	Student Center

PROGRAM OF ACTIVITIES

TIME	ACTIVITY	SPEAKER / VENUE
2:45-3 PM	Health Break	
3 PM	Closing Program	
	Synthesis	Jesus B. Pizarro, DPA Director, CPRINT
	Acknowledgement	Jeremy Godofredo C. Morales, PhD Conference Chair
	Closing Prayer	Allan Peejay M. Lappay, PhD Director, AERA
	Distribution of Certificates	

AUGUST 13, 2023 (SUNDAY)

7:30-AM	Local Tour (Optional) <ul style="list-style-type: none"> • Our Lady of Piat Basilica • Iguig Calvary Hills • Tuguegarao Heritage Tour 	Assembly: In front of the OLC Chapel
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CONCURRENT SESSIONS

Concurrent Session 1 (10 August 2023 | 10:30 AM – 12:00 NN)

Healthcare, Wellness, and Sanitation	Spirituality and Interculturality
<p>Translating a Community Health Nursing Learning Material to Filipino Language</p> <p><i>Dr. Wendell Lived</i></p>	<p>Practices on Ethno-Mathematics in the Philippines</p> <p><i>Dr. Emolyn Iringan</i></p>
<p>Social Connectedness, Digital Technologies, and Psychological Well-Being Among Nursing Students in a University in Manila</p> <p><i>Mila C. Herrera, RN, MAN</i> <i>Charina F. Algar, LPT, RN, MAEd, MAN</i> <i>Melba C. Palcon, RN, PhD</i> <i>Orlando V. Santos, RN</i></p>	<p>Perceived Spirituality and Spiritual Care Among Nursing Students in a University in Manila</p> <p><i>Paul O. Dayandayan, RN, MSN</i> <i>Amparo I. Lim, RN, RM, MAN</i> <i>Jessica M. Dela Cruz, RN, MSN</i> <i>Marijane V. Anacito, RN, MAN</i> <i>Dr. Melba C. Palcon, RN, RM, MPH, MAN</i></p>
<p>Association Between Screen Time and Developmental Disability Among Children Under Five Years Old: A Meta-Analysis</p> <p><i>Dr. Mark Manzano</i></p>	<p>College of Allied Health Students' Experience of National University Core Values</p> <p><i>Dennis B. Brosola, RN, MSN</i> <i>Melba C. Palcon, PhD, RN</i> <i>Jessica Dela Cruz, RN, MSN</i> <i>Amparo I. Lim, RN, RM, MAN</i></p>
<p>Development and Pilot Testing of the Person-Centered Palliative Care Nursing Instrument (PPCNI)</p> <p><i>Gil P. Soriano, RN, MHPed</i> <i>Kathyrine C. Soriano, RN, MAN</i> <i>Rudolf Cymorr Kirby P. Martinez, PhD</i> <i>Hirokazu Ito, RN, PhD</i> <i>Yuko Yasuhara RN, PhD</i> <i>Evalyn A. Abalos, RN, PhD</i> <i>Tetsuya Tanioka, RN, PhD, FAAN</i></p>	<p>Interculturality in St. Paul University Philippines</p> <p><i>Dr. Allan Peejay Lappay</i></p>

CONCURRENT SESSIONS

Concurrent Session 3 (10 August 2023 | 3:45 – 5:30 PM)

Healthcare, Wellness, and Sanitation	Innovation and New Technologies
<p>Upper Limb Motor Velocity Compared Between Patient with Schizophrenia and Healthy Subject: A Case Study</p> <p><i>Tanioka Ryuichi</i> <i>Kai Yoshihiro</i> <i>Matsumoto Kazuyuki</i> <i>Takase Kensaku</i> <i>Osaka Kyoko</i> <i>Tanioka Tetsuya</i></p>	<p>Students' Technopreneurial Mindsets and Skill Sets in Adopting Digital Innovation for Startup</p> <p><i>Dr. Cherry Anne Gumabay</i> <i>Dr. Maria Visitacion N. Gumabay</i></p>
<p>Caring Practices that Improve the Physical Functioning of Patients Post-Stroke: A Systematic Review</p> <p><i>Allan Paulo Blaquera, RN, MSN</i> <i>Yukari Hisaka, RN, PHN, MSN, PhD</i> <i>Kensaku Takase, MD, PhD</i> <i>Hirokazu Ito, RN, PhD</i> <i>Yuko Yasuhara, RN, PhD</i> <i>Gil P. Soriano, RN, MHPed</i> <i>Elizabeth Baua, DNS</i> <i>Tetsuya Tanioka, RN, PhD, FAAN</i></p>	<p>Pilot Study on the Analysis of Emotions in Healthy Subjects Using Multimodal Data</p> <p><i>Toshiya Akiyama</i> <i>Kyoko Osaka</i> <i>Hirokazu Ito</i> <i>Ryuichi Tanioka</i> <i>Allan Paulo Blaquera</i> <i>Tetsuya Tanioka</i></p>
<p>Effect of Self-Management Intervention on Nurses' Discipline During the Covid-19 Pandemic at a Private Hospital in Yogyakarta Indonesia</p> <p><i>Vivi Retno Intening</i> <i>Melani Rambu May Nggiri</i></p>	<p>Smart Greenhouse: An IOT-Based Monitoring and Control System with Predictive Analytics</p> <p><i>Dr. Ronald Wacas</i></p>
<p>Tobacco Safety Production Management System with Decision Support</p> <p><i>Dr. He Mingxia</i> <i>Dr. Maria Visitacion Gumabay</i></p>	<p>Students' Online Learning Effects with Predictive Analytics</p> <p><i>Dr. Liu Na</i> <i>Dr. Zenaida Estil</i></p>

CONCURRENT SESSIONS

Concurrent Session 5 (11 August 2023 | 10:30 AM-12:00 NN)

Quality Education	Innovation and New Technologies
<p>Ideological and Political Education of Catering English Course Based on OBE Concept</p> <p><i>Dr. Xiaoli Zhong</i></p>	<p>Intelligent Vehicle Monitoring and Control System for Wireless Environment with IOT Application</p> <p><i>Dr. Chen Chuixin</i> <i>Dr. Marifel Grace C. Kummer</i></p>
<p>Online Teaching Readiness and Barriers Among Nursing Faculty at Selected Schools in Manila</p> <p><i>Raymund C. Panopio</i> <i>Kristine P. Vidad</i> <i>Orlando V. Santos</i> <i>Mylene R. Pekson</i> <i>Gil P. Soriano</i></p>	<p>Detection and Prediction of Maize Nutrient Deficiency with Decision Support System</p> <p><i>Dr. Desiray Nayga</i> <i>Dr. Marifel Grace Capili-Kummer</i></p>
<p>Internationalization Status of Jiaying University</p> <p><i>Dr. Qiuyun Li</i></p>	<p>Fluid Viscous Damper for Seismic Resiliency of a Public School's Muti-Storey Building in Tuguegarao City</p> <p><i>Mr. Kylle Andrei A. Danao</i> <i>Engr. Nova Domingo</i></p>
<p>Technology-Enabled Teaching and Learning</p> <p><i>Dr. Bryan B. Echanique</i> <i>Dr. Maria Leodevina C. Batugal</i></p>	<p>AI in Research: An Integrative Literature Review</p> <p><i>Dr. Jesus B. Pizarro</i></p>
<p>Doctoral Nursing Programs in the Philippines</p> <p><i>Josephine D. Lorica, DPA, RN</i></p>	<p>Sustaining Access For Equitable Learning (SAFE to Learn): The SPUP Experience</p> <p><i>Noemi T. Cabaddu, RSW, MSSW</i></p>

CONCURRENT SESSIONS

Concurrent Session 7 (11 August 2023 | 3:30 – 4:30 PM)

Healthcare, Wellness, and Sanitation	Business and Entrepreneurship
<p>Gude Bean Antioxidant Effects on Homa-Ir and IRS-1 of High Fat and High Fructose Diet Rats</p> <p><i>Fransisca Maharini</i> <i>Tukimin</i> <i>Sunarti</i></p>	<p>Business Strategies of E-Commerce Industry in Tuguegarao City</p> <p><i>Dr. Juvie Bacani</i></p>
<p>Effect of Adding Proportions of Banana Hump (<i>Musa Paradisiaca</i>) on Protein and Fiber Contents of Catfish Sausage (<i>Clarias Gariepinus</i>)</p> <p><i>Ceacilia Eva Luluk Septiana</i> <i>Diyan Yunanto Setyaji</i> <i>Fransisca Shinta Maharini</i></p>	<p>Self-Efficacy and Intention to Become Entrepreneurs Among Selected Nursing Students in a University in Metro Manila</p> <p><i>Alvin Hernandez, RN, MAN</i> <i>Kristine Vidad, RN, MAN</i> <i>Edna Fajardo, RN, MAN</i> <i>Gail Marie Valdez, RN, MAN</i></p>
<p>Culture Among Pregnant and Postpartum Women in Banjarmasin</p> <p><i>Selly Kresna Dewi</i> <i>Sapariah Anggraini</i> <i>Margareta Martini</i> <i>Gertrudis Tutpai</i></p>	<p>Cost Management of Selected Chinese Energy Generation Enterprises</p> <p><i>Dr. Wu Shuang</i> <i>Dr. Corazon dela Cruz</i></p>
<p>Nurse Empowerment in the Handover Process</p> <p><i>Eva Supriatin</i> <i>Winia</i> <i>Suci Noorhayati</i> <i>Diwa Agus Sudrajat</i></p>	<p>Competitiveness Framework for Micro and Small Enterprises</p> <p><i>Dr. Marjorie Bambalan</i></p>
<p>Employees' Productivity and Smartphone Compulsion</p> <p><i>Juana C. Rivera, PhD</i></p>	<p>College Students' Entrepreneurial Behavior and Their Personal Competencies</p> <p><i>Dr. Teresita T. Lasam</i></p>

CONCURRENT SESSIONS

Concurrent Session 9 (12 August 2023 | 11:00 AM – 12:00 NN)

Innovation and New Technologies	Healthcare, Wellness, and Sanitation
<p>Scientific Mapping of Disaster Preparedness and Response in Nursing: A Bibliometric Analysis</p> <p><i>Marijane V. Anacito, RN, MAN</i> <i>Alvin Hernandez, RN, MAN</i> <i>Arleen Monterde, RN, MAN</i> <i>Fritz Gerald V. Jabonete, RN, MAN</i> <i>Gail Marie Valdez, RN</i> <i>Amparo Lim, RN, RM, MAN</i></p>	<p>Idiopathic Scoliosis and Associated Factors Among School Children: A School-Based Screening and Health Education in Tuguegarao City</p> <p><i>Mr. Jupiter Dolores</i></p>
<p>Virtual Human Assistant Using VR Technology</p> <p><i>Huang GuoRong</i> <i>Mrs. Sheena Gumarang</i></p>	<p>Students' Engagement in Yoga in Relation to Their Physical Health and Wellbeing</p> <p><i>Dr. Tan Jian</i></p>
<p>Structural Equation Model on Work Morale, Job Satisfaction, Organizational Commitment, and Performance of State University Faculty Members</p> <p><i>Restituto M. Llagas Jr.</i> <i>Aldrin S. Jaramilla</i> <i>Joseph G. Taban</i> <i>Mhark Jay O. Benitez</i></p>	



HEALTHCARE, WELLNESS, AND SANITATION

EFFECT OF SELF-MANAGEMENT INTERVENTION ON NURSES' DISCIPLINE DURING THE COVID-19 PANDEMIC AT A PRIVATE HOSPITAL IN YOGYAKARTA, INDONESIA

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Abstract. Nurse discipline is one of the crucial behavioral factors in the nursing profession. During the Covid-19 pandemic, nurses were required to be even more disciplined in terms of using universal precaution and other nursing service procedures to prevent transmission of the virus. Nurses need interventions to help themselves carry out their disciplinary duties. Self-management is one of the interventions that provide experience for individuals to regulate their own behavior especially in terms of discipline. This study aimed to determine the effect of self-management on the level of nurses' discipline using pre-experimental method involving 50 nurses. Observation sheets were used to evaluate nurses' discipline in pre- and post-self-management interventions. The Wilcoxon test showed a p-value of 0.001, indicating an effect of self-management on the level of nurses' discipline during the Covid-19 pandemic at a private hospital in Yogyakarta, Indonesia. Private hospital nurses need to acquire self-management training periodically to improve their discipline level in nursing care services.

Keywords: Covid-1 pandemic, discipline, nursing care, private hospital, self-management