Advancing Paulinian Core Values as SPUP's Response to Climate Change

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Abstract: With the adverse effects of Climate Change in the environment, it is necessary to critically examine attitudes and behaviors relevant to environmental values. Highlighting the incorporation of the Paulinian Core Values, St. Paul University Philippines (SPUP) fostered environmental programs, projects, activities, and partnerships towards the realization of the Sustainable Development Goal (SDG) on Climate Change. Utilizing the descriptive research design, this study examined the extent of integration of the Paulinian Core Values, namely: Christ-centeredness, Commission, Charity, Charism, and Community, in the implementation of SPUP's Climate Change initiatives. With participants composed of teachers, students, alumni, and members of partner communities, the results showed that the degree of integration of the Paulinian Core Values in the realization of the University's Climate Change-related endeavors is gauged to a "Very Great Extent". Moreover, the findings also demonstrated the ability of SPUP to foster relevant and responsive environmental advocacy in engaging its academic and partner communities towards the advancement of its Climate Change undertakings. This is reflected in the paradigm on SPUP Environmental Core Values, where the principles of ecological spirituality, environmental environmental integrity, justice, environmental environmental and engagement, stewardship are advanced vis-à-vis the Paulinian Core Values.

Keywords: St. Paul University Philippines, Climate Change Initiatives, Paulinian Core Values, Environmental Advocacy, SPUP Environmental Core Values

I. INTRODUCTION

Climate Change has caused immense challenges to the environment and humanity. Its adverse effects have become global concerns. It has drastically altered human lifestyle, engagements, experiences, and opportunities (Devine-Wright, 2013; Heimann & Mallick, 2016; Nicolosi & Corbett, 2018). With the projected population of the world at nine billion by 2050 (UNFPA, 2020), issues related to Climate Change, like environmental sustainability and resource sharing and utilization, are inevitable (Swim, Clayton & Howard, 2011). As a result, the United Nations 2030 Agenda for Sustainable Development has set a goal to address environmental trepidations along with Climate Change. It is encompassed in objective 13: "*To take urgent action to combat Climate Change and its impacts*" (UN, 2015). Additionally, it has been emphasized that Climate Change has caused a high incidence of mortality due to its effects like pollution, excessive heat, malnutrition, and dreadful diseases (WHO, 2020).

With the challenges brought about by Climate Change in the environment, it is necessary to foster attitudes and behaviors that promote environmental concern and efforts to mitigate its impacts (Poortinga et al., 2019). With human beings as prime contributors to this phenomenon, it is also vital to assess human values as characteristics to guide them in their actions towards the promotion of proenvironmental behaviors in the context of Climate Change (Corner, Markowitz, & Pidgeon, 2014).

Although, according to Steg and Vlek (2009), values are implicitly related to pro-environmental behavior, they are vital in determining the beliefs and concerns of human beings on Climate Change (Prati, Pietrantoni & Albanesi, 2018). Moreover, other studies suggest that Climate Change messaging is framed to reflect human values, such as social justice, community, frugality, personal integrity, health, and beliefs in self-efficacy (Howell & Allen, 2016; Bostrom et al., 2013). These studies imply that just as values influence people's actions and choices, there is a possibility to foster changes in their environmental values emanating from their understanding of Climate Change.

As the risk of climate disruption is continuously growing, St. Paul University Philippines (SPUP) is cognizant of its responsibility in equipping its members with knowledge, values, and skills to actively engage in solving real problems and to create and maintain a sustainable environment (Ang & Lappay, 2020). With the University working towards the realization of the United Nations' Sustainable Development Goals through its global education, it has implemented programs, projects, and activities along the 17 SDGs. In particular, SPUP's endeavors pertinent to Climate Change are grounded on educational approaches and solutions promotive of environmental care and stewardship as *"there is an* *urgency in addressing the issue on climatic change*" (Pope Francis, 2015).

With its unwavering commitment through its environmental advocacy program, SPUP leads by engaging its academic and partner communities in leveraging environmental values and care for creation as a response to the climate crisis (Lappay, 2019). This advocacy is rooted in SPUP's mission towards human development, and social transformation (Ang & Lappay, 2020) embodied in its Paulinian Core Values, namely: Christ-centeredness, Charity, Commission, Community, and Charism. As an institution of learning, SPUP advances its core values towards holistic and sustainable endeavors responding to the environmental challenges due to Climate Change (Morales, 2016).

As SPUP has been awarded the "Most Eco-Friendly and Sustainable School" in the Cagayan Valley Region by the Environmental Management Bureau of the Republic of the Philippines, its environmental initiatives, particularly on Climate Change, have been recognized to consider "*a living, dynamic, and participatory reality, which cannot be excluded in rethinking the relationship between human beings and the environment*" (Pope Francis, 2015). Thus, this study is undertaken to assess the integration of the Paulinian Core Values in the implementation of SPUP's Climate Change initiatives and to determine a paradigm in describing their relationship.

Conceptual Framework

Valuing the environment also includes responsible actions leading to justice, integrity, involvement, altruism, and spirituality (Howell & Allen, 2016). With Climate Change as a primary environmental concern, SPUP advocates for environmentally responsible actions, ingrained in its Paulinian Core Values, to undertake efforts to mitigate its effects.

The Paulinian Core Values are qualities that SPUP, as an institution, forms Paulinian learners and directs its efforts through education. The SPUP Student Handbook (2017) enumerated the Paulinian Core Values as follows: a) Christ-centeredness, wherein Christ is the center of Paulinian life; b) Commission, where Paulinians exude a life purpose to spread the Good News and make the world a better place to live in; c) Charism where Paulinians develop talents and gifts for the service of the community, striving to grow and improve daily, always seeking the better and finer things and the Final Good; d) Community where Paulinians are responsible family members and citizens, concerned with building communities, promotion of peoples, justice and peace, and the protection of the environment; and e) Charity where Paulinians are urged by the love of Christ to be warm, loving, hospitable and "all to all".

Climate Change-related attitudes and beliefs continue to proliferate, affecting environmental principles, policies,

and plans to mitigate this global phenomenon. The United Nations Framework Convention on Climate Change (2020) reveals that Climate Change is the result of human activity. Occurrences such as floods, droughts, and pollution are manifestations that people are experiencing Climate Change. Furthermore, the unpredictability of the effects of Climate Change patterns increases environmental risks (Wang & Kim, 2018) while public health services and goods which are essential for human life become vulnerable (IPCC, 2020). Therefore, it is important to imbibe adaptive values and actions that stimulate human capacity towards collective action in advancing environmental causes to assuage the effects of Climate Change (Marshall et al., 2019).

Purpose of the Study

This study examined the Paulinian Core Values relevant to SPUP's Climate Change initiatives. Specifically, it is aimed to:

- 1. determine the extent of the integration of the Paulinian Core Values in the implementation of SPUP's Climate Change initiatives; and,
- 2. design a paradigm on the relation of the Paulinian Core Values and SPUP's Climate Change-related undertakings.

II. METHODOLOGY

The research utilized the descriptive design, particularly the descriptive survey method. A researchermade survey questionnaire was used to gather the data on the extent of the integration of the Paulinian Core Values in the implementation of SPUP's Climate Change initiatives. The instrument covers indicators that correspond to each Paulinian Core Value. A total of 304 participants were randomly selected from the following sectors of SPUP: teachers, students, alumni, and members of partner communities.

Group	Frequency	Percentage
Teachers	32	10.53
Students	163	53.62
Alumni	64	21.05
Members of Partner	45	14.80
Communities		
TOTAL	304	100.00

Table 1. Distribution of the Group of Participants

In the data interpretation, critical analysis was employed to ascertain the relation of SPUP's Climate Change initiatives and the Paulinian Core Values. On the other hand, the weighted mean was used to determine the extent of the integration of the Paulinian Core Values in the implementation of SPUP's Climate Change initiatives.

Table 2.	Scale	Range	and	Descrip	ptive	Inter	pretation
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Mean (M)	Descriptive Interpretation (DI)
3.25 - 4.00	Very Great Extent (VGE)
2.50 - 3.24	Great Extent (GE)
1.75 - 2.49	Moderate Extent (ME)
1.00 - 1.74	Little Extent (LE)

III. RESULTS AND DISCUSSION

A. The Integration of Paulinian Core Values in SPUP's Climate Change Initiatives

As environmental values are important indicators of Climate Change-related attitude and behavior (Poortinga et al., 2019), the Paulinian Core Values demonstrate the quality of SPUP-led initiatives along with Climate Change issues. Moreover, the integration of the Paulinian Core Values in the implementation of Climate Change-related endeavors manifests the capacity and determination of the University in advancing its educational commitment to institute measures that are environmentally sustainable and adaptable (Hornsey et al., 2016).

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Indicators		chers	Stuc	lents	Alu	mni	Partners	
indicators	М	DI	М	DI	М	DI	М	DI
SPUP exhibits a strong commitment to mitigate Climate Change as a moral obligation to care for creation.	3.75	VGE	3.22	VGE	3.42	VGE	3.76	VGE
SPUP includes discussions and actions on Climate Change as part of its faith-formation activities.	3.75	VGE	3.48	VGE	3.14	GE	3.02	GE
SPUP teaches Climate Change mitigation as a facet of God's calling to care for the environment.	3.84	VGE	3.39	VGE	3.19	GE	3.51	VGE
SPUP fosters ethical solutions to Climate Change problems.	3.56	VGE	3.37	VGE	3.50	VGE	3.53	VGE
SPUP advances the relationship of God, man, and creation through its Climate Change initiatives.	3.81	VGE	3.36	VGE	3.14	GE	3.47	VGE
Category Mean	3.74	VGE	3.36	VGE	3.28	VGE	3.46	VGE

Table 3. The extent of Integration of the Value of Christ-centeredness in SPUP's Climate Change Initiatives

As shown in Table 3, the participants assessed the extent of the integration of the Paulinian Core Value of Christ-centeredness in SPUP's Climate Change initiatives to a "Very Great Extent." This result demonstrates the capacity of SPUP to anchor its Climate Change initiatives relevant to its character as a Catholic University. As an institution of learning, SPUP develops the behavior and attitudes needed to cultivate ecological spirituality. This is evident in the manner the University demonstrates moral obligation to care for creation, commitment, fosters ethical solutions, and advances the relationship of God, man, and

creation through its Climate Change-related undertakings. This is based on the recognition of the foundational value that cares for creation is an important aspect of human value systems and a fundamental responsibility that underpins human prosperity (Sachs, 2015). Moreover, the inclusion of environmental actions, like Climate Change mitigation, as part of faith-formation activities also leads to the sustainable development of human life, thereby contributing to the well-being of the society or the community (Fatubarin, 2014).

Table 4. The extent of Integration of the Core Valu	e of Commission in SPUP's Climate Change Initiatives
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	Teac	chers	Students		Alumni		Part	ners
Indicators	М	DI	М	DI	М	DI	М	DI
SPUP integrates concepts and proactive strategies on Climate Change mitigation in its learning design.	3.53	VGE	3.09	GE	3.16	GE	3.31	VGE
SPUP highlights Climate Change mitigation as a mission for the environment.	3.59	VGE	3.15	GE	3.03	GE	3.67	VGE
SPUP conducts service-learning activities for the mitigation of Climate Change.	3.06	GE	3.09	GE	3.16	GE	3.64	VGE
SPUP institutes Climate Change-related endeavors in its school operations and community environmental programs.	3.88	VGE	3.23	GE	3.41	VGE	3.78	VGE
SPUP initiates programs, projects, and activities for the mitigation of Climate Change.	3.13	GE	3.10	GE	3.23	GE	3.67	VGE
Category Mean	3.44	VGE	3.13	GE	3.20	GE	3.61	VGE

In Table 4, the extent of the integration of the Paulinian Core Value of Commission in SPUP's Climate Change initiatives is assessed by teachers, alumni, and members of partner communities to a "Very Great Extent", while to a "Great Extent" by students. The incorporation of environmental values in its learning design, the inclusion of environmental service-learning, and the institution of environmental programs to mitigate Climate Change reflects the University's commitment towards environmental integrity. Furthermore, considering the mitigation of Climate Change as a mission requires an ethics of care and relational values for a livable environment (Adams, 2016). This perspective justifies the presence of proactive approaches in the University's environmental undertakings. SPUP's commitment to environmental integrity is demonstrated through its initiatives and policies that highlight values integration and technology application towards the conservation of humanity's natural habitat (O'Neill, 2017).

8	Teac	Teachers		Students		Alumni		ners
Indicators	М	DI	М	DI	М	DI	М	DI
SPUP engages with its partner communities on climate mitigation	3.78	VGE	3.47	GE	3.08	GE	3.80	VGE
programs, projects, and activities.								
SPUP promotes resolutions to Climate Change as a communal	3.50	VGE	3.37	VGE	3.45	VGE	3.60	VGE
effort.								
SPUP participates in the concerted efforts of the community to	3.53	VGE	3.18	GE	3.72	VGE	3.47	VGE
curb Climate Change.								
SPUP inspires members and the community to work for Climate	3.50	VGE	3.26	VGE	3.14	GE	3.82	VGE
Change mitigation.								
SPUP works for Climate Change mitigation as a social	3.75	VGE	2.96	VGE	3.38	VGE	3.53	VGE
responsibility.								
Category Mean	3.61	VGE	3.25	VGE	3.35	VGE	3.64	VGE

Table 5. The extent of Integration of the Core Value of Community in SPUP's Climate Change Initiatives

Table 5 reveals the participants' assessment on the extent of the integration of the Paulinian Core Value of Community in SPUP's Climate Change initiatives to a "Very Great Extent." As it promotes environmental engagement, SPUP is working for community-based sustainability by involving the active participation of its members and partners. As a value, environmental engagement consists of leading, participating, working, and motivating members of the community towards innovative resolutions to mitigate Climate Change (Wiseman, Williamson & Fritze, 2010). Moreover, with the importance of environmental engagement is essential to achieving sustainable and responsible development, values and principles are also needed to guide community engagement strategies to avert the effects of Climate Change (Schaefer, Williams & Blundel, 2020). In SPUP, environmental engagement is based on the greater participation of people in decision-making, accountability, transparency, and environmental protection as a communal effort (Corner & Clarke, 2017).

 Table 6. The extent of Integration of the Core Value of Charism in SPUP's Climate Change Initiatives

	Teachers		Students		Alumni		Part	ners
Indicators	М	DI	М	DI	М	DI	М	DI
SPUP engages learners to actively participate in Climate Change-	3.28	VGE	3.36	VGE	3.13	GE	3.49	VGE
related advocacies.								
SPUP institutes enabling research-based projects to cope with	3.06	GE	3.21	GE	3.19	GE	3.49	VGE
Climate Change.								
SPUP contributes to resolving Climate Change issues to enable	3.25	VGE	3.27	VGE	3.25	VGE	3.44	VGE
human safety and development.								
SPUP empowers its members to initiate and participate in activities	3.41	VGE	3.16	GE	3.64	VGE	3.58	VGE
on Climate Change mitigation.								
SPUP spearheads service-learning activities to raise awareness on	3.53	VGE	3.39	VGE	3.28	VGE	3.58	VGE
Climate Change.								
Category Mean	3.31	VGE	3.28	VGE	3.30	VGE	3.52	VGE

As presented in Table 6, the participants assessed the extent of the integration of the Paulinian Core Value of Charism in SPUP's Climate Change initiatives to a "Very Great Extent." In SPUP, this is practiced through the various service-learning activities, research-based projects, and advocacies relevant to environmental care, specifically on Climate Change mitigation. These are key aspects towards understanding the value of environmental stewardship as they enable human welfare and development (Hansen & Cramer, 2015). Accordingly, SPUP's environmental stewardship principle is rooted in its vision for the growth of persons and the improvement of the quality of life. As it is also related to human values, it is also directed towards responsible management of human activity to ensure the conservation and preservation of natural resources for the sake of human and other life on the planet (Nicolosi & Corbett, 2018).

	Teac	Teachers		Students		Alumni		tners
Indicators	М	DI	М	DI	М	DI	М	DI
SPUP sustains programs promotive of environmental values to abate the effects of Climate Change.	3.47	VGE	3.21	GE	3.64	VGE	3.11	GE
SPUP instills environmental care as a discipline to prevent the consequences of Climate Change.	2.91	VGE	3.35	VGE	3.80	GE	3.44	VGE
SPUP advocates for environmental care and justice to ameliorate Climate Change.	3.63	VGE	3.34	VGE	3.67	GE	3.24	GE
SPUP creates opportunities for members to undertake concrete actions to lessen the impact of Climate Change.	3.72	VGE	3.14	GE	3.61	VGE	3.53	VGE
SPUP teaches that active participation in resolving Climate Change issues manifests love for God, creation, and others.	3.47	VGE	3.25	VGE	3.53	GE	3.53	VGE
Category Mean	3.44	VGE	3.26	VGE	3.65	VGE	3.37	VGE

The extent of the integration of the Paulinian Core Value of Charity in SPUP's Climate Change initiatives as indicated in Table 7 is assessed by the participants to a "Very Great Extent". As the University promotes care for creation, it also advocates for environmental justice. This is expressed in the collective action of the University to curtail the impact of Climate Change. Moreover, this is evident as SPUP continuously sustains its educational programs, projects, and activities, instills discipline and values, and creates learning opportunities and experiences

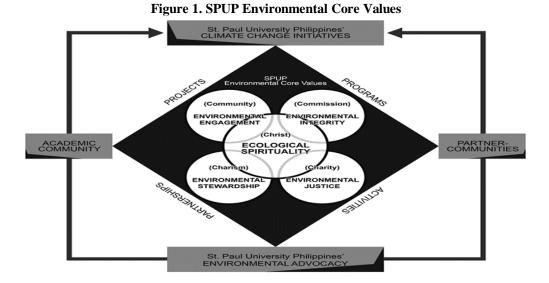
B. The Relation of the Paulinian Core Values and SPUP's Climate Change Initiatives

Imbibing ecological values is critical for Climate Change awareness and for changing behavior towards mitigation efforts. (Gatersleben et al., 2010). Furthermore, the relation of environmental values to Climate Changerelated endeavors is linked with strategic adaptations (Wynveen & Sutton, 2017) that promote mitigation behaviors (Chen, 2015).

Figure 1 is a Paradigm of SPUP Environmental Core Values. It illustrates the relation of the Paulinian Core

as a demonstration of love for the environment (Temper et al., 2018). Recognizing the principle of environmental justice implies the promotion of inclusive and efficient strategies to ensure sustainable development (Agyeman et al., 2016). It also exhibits the University's capacity to elicit the values of participation, consensus building, equity, respect, transparency, efficiency, and accountability (Schlosberg, 2013) from the members of its academic and partner communities.

Values to the University's Climate Change initiatives. It reflects the ability of SPUP to foster relevant and responsive *environmental advocacy* through its *programs, projects, partnerships, and activities* by engaging its *academic community* and *partner communities* to address Climate Change. While the principles of environmental engagement, environmental justice, environmental stewardship, environmental integrity, and ecological spirituality are the embodiment of the Paulinian Core Values, they also exemplify the various initiatives of SPUP along with environmental advocacy, particularly on Climate Change.



Christ-centeredness signifies the value of Ecological Spirituality. It encapsulates the relationship between God and creation and represents the foundation and convergence of the values of ecological justice, integrity, engagement, stewardship, and equilibrium (Suganthi, 2019). Through this value, SPUP is cognizant of the importance of spiritual transformation to cultivate ecological principles. Since the University is continuously advancing in its educational mission, SPUP highlights its teaching-learning process, faith-formation activities, and community services as a proclamation of the mercy of God and thanksgiving for creation and salvation (Ang & Lappay, 2020). Along with ecological spirituality, SPUP's well-crafted landscape of its gardens and parks and the robust trees and ornamental plants growing on campus bequeath venues for spiritual reflection and integration.

This develops a sense of appreciation for the diversity of life and commitment to care for creation. Furthermore, through its environmental service-learning activities, SPUP consistently affirms the role of everyone in the community in conserving the environment and protecting natural resources to prevent environmental degradation that endangers human well-being. This *"enables the development of new convictions, attitudes, and forms of life as manifested in a great spiritual, cultural and educational challenge on the path of renewal"* (Pope Francis, 2015).

Commission reflects the value of maintaining *Environmental Integrity*. This involves recognition of the impact of human activities on the environment (Cordonnier-Segger et al., (2004). In SPUP, preserving

environmental integrity involves innovations and emerging technologies for a sustainable environment (Ang & Lappay, 2020). For its Climate Change-related undertakings, the University spearheaded the Clean and Green Charcoal project in Baggao, Cagayan. This venture with the Embassy of Japan to the Philippines endeavors the utilization of Corn Cub as an alternative charcoal material instead of wood-based charcoal. This minimizes the cutting of trees, which causes environmental degradation in the locality. Moreover, SPUP, as an educational institution, also pioneered the use of solar energy as a source of renewable energy in schools. The solar panels were installed by the Buskowitz group of companies. SPUP also instituted an E-waste management system which includes the proper collection of e-waste and safe disposal by suitable techniques. The approach has also been taught to the partner communities as an appropriate action to care for the environment. Subsequently, the University has also instituted programs along with biodiversity, energy, and water conservation. In stressing environmental integrity, SPUP is guided by the "moral imperative of assessing the impact of every human action and personal decision" (Pope Francis) affecting the ecology.

The community emphasizes the value of fostering Environmental Engagement. This is intended to heighten about environmental awareness problems, build knowledge through education about the impact of human behaviors on nature, and transform human behaviors towards ecological sustainability (Fanli & Tobias, 2019). In SPUP, environmental engagement gears towards social transformation through education for sustainable development that "takes place within the context of people and institution and demands for constant and active involvement" (Pope Francis, 2015). Because of this, SPUP fosters opportunities and experiences between its academic community and partner communities to meet the needs of the present and future generations, along with environmental through service-learning protection activities (Ang & Lappay, 2020). As offshoots of its agenda to curb Climate Change, SPUP has involved both members of its academic and partner communities in activities like tree growing projects for deciduous trees and fruit-bearing plants in Enrile, Cagayan, ecological mountain reforestation in Solana, Cagayan, tilling and forest action in Amulung, Cagayan, reduction of marine pollution, particularly from land-based activities, including marine dries and nutrient pollution, Tuguegarao City Green Agenda, Barangay Clean-Up Drive in Baggao, Cagayan, Coastal Clean-Up in Sanchez Mira, Cagayan, and Mangrove tree growing project in Sta. Teresita, Cagayan.

Charism indicates the value of continuing *Environmental Stewardship*. It stems from a sense of personal and organizational responsibility and serious moral commitment to redressing environmental problems (Bennett, Whitty & Finkbeiner, 2018). In SPUP, this is expressed in the manner the University continuously

promotes the values of responsibility, accountability, and stewardship (Ang & Lappay, 2020) which involves "living the vocation to be protectors of God's handiwork" (Pope Francis, 2015). As proactive actions to prevent the consequences of Climate Change, SPUP has integrated Disaster Risk, Reduction and Resilience Education, and Climate Change Mitigation into its academic designs. Moreover, the University undergoes regular facility and building inspection and conducts safety exercises and drills, pieces of training, and symposia along with disaster preparedness. SPUP has also established a strong partnership with agencies along with environmental protection, such as the Environmental Management Bureau and the Department of Environment and Natural Resources, and disaster and safety management, like the Office of Civil Defense, the City Bureau of Fire Protection, and the Tuguegarao City Police Station. With the institutionalization of environmental stewardship as advocacy, SPUP's partner communities are also led to participating in the efforts of the University towards a viable ecology. This is done through the efforts of student and employee organizations that aligned their projects and activities along with SPUP's environmental advocacy program.

Charitv manifests the value of practicing Environmental Justice. It entails the action and participation of all people with respect to environmental concerns (Syed, 2018). In SPUP, this is demonstrated in the manner the University advances knowledge, skills, and values by raising awareness and providing conditions for informed decision-making and responsible behavior towards environmental protection (Ang & Lappay, 2020). To mitigate the effects of Climate Change, SPUP highlighted the implementation of the following policies: Solid Waste Management, Clean As You Go (CLAYGO), 5S (Sort, Systematize, Sweep, Sanitize, and Self-Discipline) of Good House Keeping, 4Rs (Reduce, Reuse, Recycle, and Respect), and Plastic-Free and Styrofoam-Free drives. SPUP also ventured into the "Trash to Patterns" project, where construction waste materials are remodeled into handcrafts, woodworks, and arts. These practices are being imparted in partner communities as part of the environmental service-learning activities of the University. Moreover, with the risks brought about by Climate Change, SPUP strengthened its safety and security system through its Disaster Preparedness and Emergency Response program on campus and established the Family-Based Disaster Risk Reduction Management Program in partner communities in the provinces of Cagayan and Apayao. In SPUP, environmental justice works towards a sustainable environment that exhibits "a living, dynamic and participatory reality, which cannot exclude the relationship between human beings and the environment" (Pope Francis, 2015).

IV. CONCLUSION

It could be concluded that the integration of the Paulinian Core Values in SPUP's Climate Change initiatives expresses the ability of the University to foster environmental values, attitudes, and actions relevant to its character as a Catholic University. The identification of the Environmental Core Values along the Paulinian Core Values provides the context in which SPUP contributes to the realization of the Sustainable Development Goal on Climate Change through its teaching-learning process, faith-formation activities, and community services. Moreover, the embodiment of the Paulinian Core Values in SPUP's Climate Changes initiatives demonstrates the University's capability to endeavor its educational mission in advancing environmental advocacy and environmental consciousness among its academic and partner communities. This allows them to actively engage in projects, programs, partnerships, and activities that address

REFERENCES

- [1] Adams, M., Ecological crisis, sustainability and the psychosocial subject: Beyond behavior change. Palgrave Macmillan: London.
- [2] Agyeman, J., Schlosberg, D., Craven, L., and Matthews, C., Trends and directions in environmental justice: From inequity to everyday life, community, and just sustainabilities. Annual Review of Environment and Resources, 41 (2016) 321–40.
- [3] Ang, Sr. M., and Lappay, A.P., Engaging in the sustainable development goals through Laudato si': a primer on the initiatives of St. Paul University Philippines towards the sustainability of protecting mother Earth. Tuguegarao City, Cagayan. Copyright Certificate No. A-2020-00372., (2020).
- [4] Bennet, N., Whitty, T., and Finkbeiner, E., Environmental stewardship: a conceptual review and analytical framework. Environment Management. https://doi.org/10.1007/s00267-017-0993-2., (2018).
- [5] Bostrom, A., Böhm, G., and O'Connor, R., Targeting and tailoring climate change communications. WIREs Climate Change. 4 (2013) 447–455, doi:10.1002/wcc.234.
- [6] Chen, M., An examination of the value-belief-norm theory model in predicting pro-environmental behavior in Taiwan. Asian Journal of Social Psychology. 18 (2015) 145– 151. 10.1111/ajsp.12096.
- [7] Cordonier-Segger, M., Borregaard, N., Bastida-Muños, M., Salvador, S., Taillant, D., Amparo-Alban, M., Leichner-Reynal, and M., Murillo, C. (2004). Social rules and sustainability in the Americas. IISD, pp.264.
- [8] Corner, A., and Clarke, J., Talking climate: from research to practice in public engagement. London, United Kingdom: Palgrave Macmillan., (2017).
- [9] Corner, A., Markowitz, E., and Pidgeon, N., Public engagement with climate change: The role of human values. WIREs Climate Change. 5 (2014) 411–422. doi:10.1002/wcc.269.
- [10] Devine-Wright P., Think global, act local? The relevance of place attachments and place identities in a climate-changed world. Global Environmental Change Human Policy Dimensions. 23 (2013) 61–69. 10.1016/j.gloenvcha.2012.08.003.
- [11] Fanli, J., and Tobias, K., Environmental engagement and cultural value: global perspectives for protecting the natural world. Frontiers in Psychology. https://doi.org/10.3389/fpsyg.2019.02853., (2019).
- [12] Fatubarin, A., Understanding the spiritual environment and accessing sustainable development in life. European Journal of Training and Development. 1(1) (2014) 1-12. www.eajournals.org.
- [13] Gatersleben B., White E., Abrahamse W., Jackson T., and Uzzell D., Values and sustainable lifestyles. Architectural Science Review. 53 (2010) 37–50. 10.3763/asre.2009.0101.
- [14] Hansen, G., and Cramer, W. (2015). Global distribution of observed climate change impacts. Nature Climate Change. 5, 182–185. https://doi.org/10.1038/nclimate2529.

Climate Change concerns through holistic, transformative, and value-based Paulinian education.

V. RECOMMENDATIONS

It is recommended that with the assessment on the extent of the integration of the Paulinian Core Values in SPUP's Climate Change initiatives, a study on the impact of the University's Climate Change-related endeavors may be conducted. Moreover, the SPUP Environmental Core Values may be emphasized in the University teaching-learning process, faith-formation activities, and community services. Finally, the relevance of the paradigm on Environmental Core Values may be examined vis-à-vis SPUP's environmental advocacy programs, projects, activities, and partnerships.

- [15] Heimann T., and Mallick, B., Understanding climate adaptation cultures in the global context: proposal for an explanatory framework. Climate 4:59 10.3390/cli4040059., (2016).
- [16] Hornsey, M., Harris, E., Bain, P., and Fielding, K.S., Metaanalyses of the determinants and outcomes of belief in climate change. Climate Change. 6, 622–626, doi:10.1038/nclimate2943., (2016).
- [17] Howell, R. and Allen, S., Significant life experiences, motivations and values of climate change educators. Environmental Education Research., (2016) 1–19, doi:10.1080/13504622.2016.1158242.
- [18] IPCC., The Intergovernmental Panel on Climate Change. https://www.ipcc.ch/sr15/ (2020) (accessed on July 2, 2021).
- [19] Lappay, A.P., Advocacies in global citizenship education through whole-School approach: The St. Paul University Philippines' experience. In Mariano, E., Cawagas, V., and Senses-Ozyurt, S. (eds), Role of education for global citizenship in promoting social, economic, and environmental justice. (2019) 79-100. Alliant International University: San Diego, California.
- [20] Marshall, N., Thiault, L., Beeden, R., Benham, C., Curnock, M., Diedrich, A., Gurney, G., and Jones, L., Our environmental value orientations influence how we respond to climate change. Frontier Psychology. 10 (2019) 1–8, doi:10.3389/fpsyg.2019.00938.
- [21] Morales, J.G., Productivity indicators through environmental sustainability initiatives of St. Paul University Philippines. St. Paul University System Journal on Global Education, (1)1 (2016) 71-80.
- [22] Nicolosi E., and Corbett, J., Engagement with climate change and the environment: a review of the role of relationships to place. Local Environ., (2018) 23 77–99. 10.1080/13549839.2017.1385002.
- [23] O'Neill, J., Markets, deliberation and the environment. Routledge: London., (2016).
- [24] Prati, G., Pietrantoni, L., and Albanesi, C., Human values and beliefs and concern about climate change: A Bayesian longitudinal analysis. doi:10.1007/s11135-017-0538-z., (2018).
- [25] Poortinga, W., Whitmarsh, L., Steg, L., Böhm, G., and Fisher, S., Climate change perceptions and their individual-level determinants: A cross-European analysis. Global Environmental Change. 55 (2019) 25–35. doi:10.1016/j.gloenvcha.2019.01.007.
- [26] Pope Francis., Laudato si': on care for our common home. Vatican City: Vatican Press., (2015).
- [27] Sachs, J. (2015). The age of sustainable development. Columbia University Press: New York.
- [28] Schaefer, A., Williams, S., and Blundel, R., Individual values and environmental engagement. Business & Society, 59(4) (2020) 642–675.
- [29] Schlosberg, D., Theorising environmental justice: The expanding sphere of a discourse. Environmental Politics, 22(1) (2013) 37–55.
- [30] Steg, L., and Vlek, C., Encouraging pro-environmental behavior: An integrative review and research agenda. Journal on

Environmental Psychology. 29 (2009) 309–317, doi:10.1016/j.jenvp.2008.10.004.

- [31] SPUP Student Handbook., St. Paul University Philippines: Tuguegarao City, Cagayan., (2017).
- [32] Suganthi, L., Ecospirituality: a scale to measure an individual's reverential respect for the environment. Ecopsychology. http://doi.org/10.1089/eco.2018.0065., (2019).
- [33] Syed, J., Environmental justice. In Robbins, P., Cohen, N., and Golson, J.G. (eds.), Green Cities: An A-to-Z Guide. (2018) 176-179. Sage eReference. ISBN 9781412973816.
- [34] Swim, J., Clayton, S., and Howard, G., Human behavioral contributions to climate change: Psychological and contextual drivers. American Psychology., (2011)66, 251–264, doi:10.1037/a0023472.
- [35] Temper, L., Demaria, F., Scheidel, A., Del Bene, D. and Martínez, J., The global environmental justice Atlas (EJAtlas): Ecological distribution conflicts as forces for sustainability. Sustainability Science, 13(3)(2018) 573–584.
- [36] UNFCCC., Introduction to Science: New York, USA., (2020).
- [37] UNFPA., State of world population: New York, USA., (2020).

- [38] United Nations., Transforming Our World: The 2030 Agenda for Sustainable Development. Resolution Adopted by the General Assembly on 25 September 2015, A/RES/70/1. United Nations: Geneva, Switzerland., (2015).
- [39] Wang, J. and Kim, S., Analysis of the impact of values and perception on climate change skepticism and its implication for public policy. Climate. 6, doi:10.3390/cli6040099., (2018).
- [40] Wiseman, J., Williamson, L. and Fritze, J., Community engagement and climate change: Learning from the recent Australian experience. International Journal of Climate Change Strategies and Management, 2(2) (2010) 134-147. https://doi.org/10.1108/17568691011040399.
- [41] World Health Organization., Climate Change; WHO: Geneva, Switzerland., (2020).
- [42] Wynveen, C., and Sutton, S., Engaging great barrier reef stakeholders: Mediation analyses of barriers among the antecedents of pro-environmental behavior. Human Dimensions of Wildlife. 22(2) (2017) 126-141, DOI: 10.1080/10871209.2016.1265185.