

**2018 年原住民族知識體系與教育品質論壇：**  
**走向聯合國教科文組織永續發展目標與教育 2030 達標**  
**2018 Symposium of Indigenous Knowledge & Quality of Education:**  
**Reaching UNESCO SDGs and Education 2030.**

**主辦單位：Organizer:**

國立臺東大學原住民族教育及社會發展研究中心

Research Center for Indigenous Education and Social Development, National Taitung University

| <p><b>2017 年 10 月 5 日 (星期五) 2018/10/5 Friday</b><br/>(地點：臺東市娜魯灣大酒店 二樓阿美會議廳)<br/><b>Formosan Naruwan Hotel &amp; Resort Taitung 2 Floor Amis Conference Room</b><br/>Address：66, Lien Hang Road, Taitung, Taiwan, R.O.C.<br/>臺東市連航路 66 號 電話/Tel.：(886) 089-239666</p> |   |
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| 時間 Time  | 活動內容 Activity   |
| 10:45~11:00  | <b>報到 / Registration</b>  |
| 11:00~11:20<br>(20 minutes)  | <b>開幕式 / Opening Ceremony</b>   |
|  | <b>貴賓致詞 (預計 5 位每位 3~5 分鐘) / Opening Remarks</b>   |
|  | <ul style="list-style-type: none"> <li>◆ 科技部人文司代表致詞 Department of Humanity &amp; Social Science, Ministry of Science and Technology representative oration</li> <li>◆ 國立臺東大學校長致詞 President of National Taitung University oration</li> <li>◆ 國內外貴賓致詞 Invited Guests oration</li> <li>◆ 計畫主持人熊同鑫教授致詞 Professor Tung-Hsing Hsiung, Principal Investigator welcome speech</li> </ul>   |
|  | <b>大合照 Group photo</b>  |
| 11:20~12:40<br>(80 minutes)  | <b>專題演講 / Keynote Speech</b>  |
|  | <ul style="list-style-type: none"> <li>◆ <b>主持人 / Moderator</b>：(介紹、提問討論 5~10 分鐘/5~10 minutes)<br/><b>熊同鑫教授 Professor Tung-Hsing Hsiung</b><br/>Department of Early Childhood Education, National Taitung University<br/>Director of Research Center for Indigenous Education and Social Development, National Taitung University<br/>國立臺東大學幼兒教育學系<br/>國立臺東大學原住民族教育及社會發展研究中心主任<br/>(ISEP Project E)</li> <li>◆ <b>主講人 Keynote Speaker</b>：(專題演說 70 分鐘/70 minutes)<br/><b>Professor Charles Hopkins</b><br/>York University, Toronto, Canada.<br/>UNESCO Chair in Reorienting Education towards Sustainability<br/>加拿大多倫多約克大學教授</li> </ul> |

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|                            | <p>聯合國教科文組織永續發展教育主席</p> <p>講題/Topic：<br/><b>ESD: Designing to the Learner's needs</b><br/>永續發展教育 (Education for Sustainable Development)：以學習者需求為本的設計</p>  |
| 12:40~13:30                | 午餐時間 / Lunch Time   |
| 13:30~15:00<br>(90minutes) | <p style="text-align: center;"><b>A：研究交流 Research Symposium A</b></p> <p>◆ <b>主持人 / Moderator：</b><br/>汪明輝副教授 Associate Professor Tibusungu'e Vayayana<br/>Department of Geography, National Taiwan Normal University<br/>國立臺灣師範大學地理學系</p> <p>◆ <b>受邀學者 Invited Scholar：</b><br/><b>Professor Juan Miguel González Velasco</b><br/>Universidad Mayor de San Andres (UMSA), La Paz, Pedro Domingo Murillo Province, Bolivia<br/>玻利維亞拉巴斯 聖安德烈斯玻利維亞大學教授</p> <p>講題/Topic：(50 分鐘/50 minutes)<br/><b>Complexity and Transdisciplinarity in Education: Dialogues with Living Well Andean</b><br/>教育中的複雜性和跨學科性：與安第斯良善生活的對話</p> <p>◆ <b>回應人 / Panelist：(40 分鐘/40 minutes)</b><br/>請針對受邀學者報告提出問題，或者以所領之研究計畫方向提出對應對話以及合作可能性的討論<br/>Comments and Feedback to Keynote</p> <ul style="list-style-type: none"> <li>- <b>汪明輝副教授 Associate Professor Tibusungu'e Vayayana</b><br/>Department of Geography, National Taiwan Normal University<br/>國立臺灣師範大學地理學系<br/>(ISEP Project-A1)</li> <li>- <b>沈淑敏副教授 Associate Professor Su-min, Shen</b><br/>Department of Geography, National Taiwan Normal University<br/>國立臺灣師範大學地理學系<br/>(ISEP Project-A2)</li> <li>- <b>王聖鐸副教授 Associate Professor Sento Wang</b><br/>Department of Geography, National Taiwan Normal University<br/>國立臺灣師範大學地理學系<br/>(ISEP Project-A4)</li> </ul> |
| 15:00~15:30                | 中場休息 / Tea Time   |

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| 15:30~17:00<br>(90minutes) | <b>交流座談 Special Invited Panel</b><br><b>題目：科學、環境與原住民教育的永續發展</b><br><b>Topic : Science, Environment and Sustainable Development of Indigenous Education</b>   |
|                            | <p>本座談目的在釐清科學、環境與原住民知識三項議題間的矛盾與合作關係，透過國際學者間經驗借鏡與對談，期待以兼容並蓄的方式朝向永續教育發展邁進。</p> <p>The purpose of this panel is to clarify the contradictions and collaboration among social development, environment and indigenous knowledge. We invite 5 European scholars to share their experiences in sustainable development in environmental science as well as in education. We look forward to meet the harmony ways for reaching the goals of sustainable development.</p> <p>◆ <b>主持人 / Moderator :</b></p> <p><b>蔡慧敏副教授 Associate Professor Huei-Min Tsai</b><br/>Graduate Institute of Environmental Education, National Taiwan Normal University<br/>國立臺灣師範大學環境教育研究所<br/>(ISEP Project-A3)</p> <p>◆ <b>引言人 / Panelist :</b></p> <p>◆ <b>環境領域代表 Environmental field representative :</b></p> <ul style="list-style-type: none"><li>- <b>Emeritus Professor Gerard Persoon</b><br/>Environment and Development at Leiden University, Netherlands.<br/>荷蘭萊登大學環境與發展榮譽教授</li><li>- <b>Professor Ilan Chabay</b><br/>Head of Strategic Science Initiatives and Programs and the knowledge, learning, and societal change research alliance (<a href="http://www.KLASICA.org">www.KLASICA.org</a>) at the Institute for Advanced Sustainability Studies in Potsdam, Germany (IASS)<br/>德國波茨坦高等永續發展研究研究所 (IASS) 科學策略與知識、學習及社會變革研究計畫聯盟負責人</li><li>- <b>Professor Eric Clark</b><br/>Department of Human Geography, Lund University, Sweden.<br/>瑞典隆德大學人文地理學系教授</li><li>- <b>Assistant Professor Tessa Minter</b><br/>Institute of Cultural Anthropology and Development Sociology, Leiden University, Netherlands.<br/>荷蘭萊登大學文化人類學與發展社會學研究所助理教授</li><li>- <b>Dr. Manuel Rivera</b><br/>Scientific Project Leader at the Institute for Advanced Sustainability Studies (IASS) in Potsdam, Germany.</li></ul> |

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|             | <p>德國波茨坦高等永續發展研究研究所 (IASS) 科學項目負責人</p> <p>◆ <b>永續發展代表 Sustainable Development Regional Representatives</b></p> <ul style="list-style-type: none"> <li>- <b>Professor Charles Hopkins</b><br/>                 UNESCO Chair in Reorienting Education towards Sustainability, York University, Toronto, Canada<br/>                 加拿大多倫多約克大學教授<br/>                 聯合國教科文組織永續發展教育主席</li> <li>- <b>Professor Juan Miguel González Velasco</b><br/>                 Universidad Mayor de San Andres , La Paz, Bolivia<br/>                 玻利維亞拉巴斯 聖安德烈斯玻利維亞大學教授</li> <li>- <b>Associate Professor Darrel Joseph Bradley Manitowabi</b><br/>                 School of Northern and Community Studies Anthropology Program, Laurentian University, Sudbury, Canada<br/>                 加拿大薩德伯里 勞倫森大學北方和社區研究人類學學院副教授</li> <li>- <b>Associate Professor Mahazan Abdul Mutalib</b><br/>                 Faculty of Leadership and Management, Universiti Sains Islam Malaysia (USIM), Nilai, Malaysia<br/>                 馬來西亞汝來 馬來西亞伊斯蘭教理科學大學 領導與管理學院</li> <li>- <b>Dr. Tichaona Pesanayi</b><br/>                 Rhodes University, Grahamstown, South Africa<br/>                 南非格雷厄姆斯敦 羅德大學研究</li> <li>- <b>Dr. Irina Safitri Zen</b><br/>                 Head of Sustainability Research Unit, Institut Sultan Iskandar (ISI) Senior Lecturer, Faculty of Built Environment &amp; Surveying, Universiti Teknologi Malaysia, Johor State, Malaysia<br/>                 馬來西亞吉隆坡 蘇丹依斯干達研究所永續研究小組主任<br/>                 柔佛州 馬來西亞科技大學建築環境與測量學院高級講師</li> </ul> <p>◆ <b>原住民科學教育代表 Indigenous Science Education Representative</b></p> <p>請台灣 22 項原住民科學教育計畫代表出席<br/>                 Representatives of MOST 22 Indigenous Science Education Projects (ISEP)</p> |
| 17:00       | <b>散會 / Adjourned</b>  |
| 18:00~20:00 | <b>中式晚宴 / Welcome Banquet</b>  |

| <b>2017 年 10 月 6 日 (星期六) 2018/10/6 Saturday</b><br>(地點：臺東市娜魯灣大酒店 二樓阿美會議廳)<br><b>Formosan Naruwan Hotel &amp; Resort Taitung 2 Floor Amis Conference Room</b><br>Address：66, Lien Hang Road, Taitung, Taiwan, R.O.C.<br>臺東市連航路 66 號 電話/Tel.：(886) 089-239666 |  |
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| 時間 Time   | 活動內容 Activity  |
| 8:40~9:00   | <b>報到 / Registration</b>   |
|   | <b>B：研究交流 Research Symposium B</b>   |
| 9:00~10:30<br>(90minutes)   | <ul style="list-style-type: none"> <li>◆ <b>主持人 / Moderator：</b><br/><b>趙貞怡教授 Professor Jen-Yi Chao</b><br/>Graduate School of Curriculum and Instructional Communications and Technology, National Taipei University of Education<br/>國立臺北教育大學課程與教學傳播科技研究所</li> <li>◆ <b>受邀學者 Invited Scholar：</b><br/><b>Associate Professor Darrel J. B. Manitowabi,</b><br/>School of Northern and Community Studies Anthropology Program,<br/>Laurentian University, Sudbury, Canada<br/>加拿大薩德伯里 勞倫森大學北方和社區研究人類學學院</li> </ul> <p style="margin-left: 20px;">講題 Topic：(50 分鐘/50 minutes)<br/><b>Wise Pathways in Collaborative Indigenous Education Research</b><br/>合作型的原住民教育研究的明智途徑</p> <ul style="list-style-type: none"> <li>◆ <b>回應人 / Panelist：(40 分鐘/40 minutes)</b><br/>請針對受邀學者報告提出問題，或者以所領之研究計畫方向提出對應對話以及合作可能性的討論<br/>Comments and Feedback to Keynote</li> <li>- <b>趙貞怡教授 Professor Jen-Yi Chao</b><br/>Graduate School of Curriculum and Instructional Communications and Technology, National Taipei University of Education<br/>國立臺北教育大學課程與教學傳播科技研究所<br/>(ISEP Project-B1)</li> <li>- <b>劉傳璽教授 Professor Chuan-Hsi Liu</b><br/>Department of Mechatronic Engineering, National Taiwan Normal University<br/>國立臺灣師範大學機電工程學系<br/>(ISEP Project-B2)</li> <li>- <b>劉遠楨教授 Professor Yuan-Chen Liu</b><br/>Graduate School of Curriculum and Instructional Communications and Technology, National Taipei University of Education<br/>國立臺北教育大學課程與教學傳播科技研究所<br/>(ISEP Project-B3)</li> </ul> |

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|                            | <ul style="list-style-type: none"> <li>- <b>黃思華副教授 Associate Professor Tzu-Hua Huang</b><br/>Department of Education, University of Taipei<br/>臺北市立大學教育學系講題<br/>(ISEP Project-B4)</li> </ul>   |
| 10:30~10:40                | <p>中場休息 / Break</p>  |
| 10:40~12:10<br>(90minutes) | <p>C：研究交流 Research Symposium C</p>   |
|                            | <ul style="list-style-type: none"> <li>◆ <b>主持人 / Moderator：</b><br/><b>高慧蓮教授 Professor Huey-Lien Kao</b><br/>Department of Science communication, National Pingtung University<br/>國立屏東大學科普傳播學系</li> <li>◆ <b>受邀學者 Invited Scholar：</b><br/><b>Dr. Victor Tichaona Pesanayi</b><br/>Rhodes University, Grahamstown, South Africa<br/>南非格雷厄姆斯敦 羅德大學研究<br/><br/>講題/Topic：(50 分鐘/50 minutes)<br/><b>Learning to Live with Scarce Water in Farming Communities and Their Schools Using IK and Science in Eastern Cape, South Africa</b><br/>以科學和原住民知識在南非東開普省農業區及學校學習與水匱乏共處</li> <li>◆ <b>回應人 / Panelist：(40 分鐘/40 minutes)</b><br/>請針對受邀學者報告提出問題，或者以所領之研究計畫方向提出對應對話以及合作可能性的討論<br/>Comments &amp; Feedback to Keynote             <ul style="list-style-type: none"> <li>- <b>郭東雄助理教授 Assistant Professor Pasaljaig Tjangkus</b><br/>Bachelor Program of Studies of Health and Leisure &amp; Cultural indigenes, National Pingtung University<br/>國立屏東大學原住民族健康休閒與文化產業學士學位學程原住民專班<br/>(ISEP Project-C1)</li> <li>- <b>徐偉民教授 Professor Wei-Min Hsu</b><br/>Department of Education, National Pingtung University<br/>國立屏東大學教育學系<br/>(ISEP Project-C2)</li> <li>- <b>陸怡琮副教授 Associate Professor I-Chung Lu</b><br/>Department of Educational, National Pingtung University<br/>國立屏東大學教育學系<br/>(ISEP Project-C3)</li> <li>- <b>施焜耀副教授 Associate Professor Kun-Yauh Shih</b><br/>Department of Applied Chemistry, National Pingtung University<br/>國立屏東大學應用化學系<br/>(ISEP Project-C4)</li> <li>- <b>李馨慈助理教授 Assistant Professor Tjuku Ruljigaljig</b></li> </ul> </li> </ul> |



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|                                    | <p>Bachelor Program of Studies of Health and Leisure &amp; Cultural indigenes, National Pingtung University<br/>國立屏東大學原住民族健康休閒與文化產業學士學位學程原住民專班 (ISEP Project-C5)</p>  |
| <p>12:10~13:00</p>                 | <p>午餐時間 / Lunch Time</p>  |
| <p>13:00~14:30<br/>(90minutes)</p> | <p style="text-align: center;"><b>D1：研究交流 Research Symposium D1</b></p> <ul style="list-style-type: none"> <li>◆ <b>主持人 / Moderator：</b><br/><b>陳彥廷教授 Professor Yen-Ting Chen</b><br/>Department of Mathematics Education, National Taichung University of Education<br/>國立臺中教育大學數學教育學系</li> <li>◆ <b>受邀學者 Invited Scholar：</b><br/><b>Associate Professor Mahazan Abdul Mutalib</b><br/>Faculty of Leadership and Management, Universiti Sains Islam Malaysia (USIM)<br/>Director for Research Management Centre of USIM<br/>馬來西亞汝來 馬來西亞伊斯蘭教理科大學 領導與管理學院<br/><b>講題/Topic：(50 分鐘/50 minutes)</b><br/><b>Co-Learning and Creating Values with the Indigenous and Local Communities to Achieve Mizan (Balanced) in Development.</b><br/>與原住民和當地社區共學和創造價值，於發展中達到 Mizan(平衡)</li> <li>◆ <b>回應人 / Panelist：(40 分鐘/40 minutes)</b><br/>請針對受邀學者報告提出問題，或者以所領之研究計畫方向提出對應對話以及合作可能性的討論<br/>Comments &amp; Feedback to Keynote             <ul style="list-style-type: none"> <li>- <b>華國媛副教授 Associate Professor Kuo-Yuan Hwa</b><br/>Molecular Science and Engineering, National Taipei University of Technology；Director, Biomedical Industry Research and Development Center, National Taipei University of Technology<br/>國立台北科技大學分子科學與工程系暨有機高分子研究所兼生醫產業研發中心主任<br/>(ISEP Project-D1)</li> <li>- <b>陳嘉皇教授 Professor Chai-Huang Chen</b><br/>Head of Department head, Department of Mathematics Education, National Taichung University of Education<br/>國立臺中教育大學數學教育學系系主任<br/>(ISEP Project-D2)<br/><b>楊晉民 助理教授 (代理出席)</b><br/><b>Assistant Professor Jinn-Min Yang (agent attendance)</b><br/>Department of Mathematics Education, National Taichung University of Education<br/>國立臺中教育大學數學教育學系</li> <li>- <b>陳彥廷教授 Professor Yen-Ting Chen</b><br/>Department of Mathematics Education, National Taichung University of Education</li> </ul> </li> </ul> |

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|                            | <p>國立臺中教育大學數學教育學系<br/>(ISEP Project-D3)</p> <ul style="list-style-type: none"> <li>- <b>秦爾聰副教授 Associate Professor Erh-Tsung Chin</b><br/>Graduate Institute of Science Education, National Changhua University of Education<br/>國立彰化師範大學科學教育研究所<br/>(ISEP Project-D4)</li> </ul>  |
| 14:30~14:40                | <p>中場休息 / Tea Time</p>   |
| 14:40~16:10<br>(90minutes) | <p><b>D2：研究交流 Research Symposium D2</b></p>  |
|                            | <ul style="list-style-type: none"> <li>◆ <b>主持人 / Moderator :</b><br/><b>樂錯·祿璞峻岸副教授 Associate Professor Ljgay Rupeljengan</b><br/>Department of Earth Sciences, National Cheng Kung University<br/>國立成功大學地球科學系</li> <li>◆ <b>受邀學者 Invited Scholar :</b><br/><b>Dr. Irina Safitri Zen</b><br/>Head of Sustainability Research Unit, Institut Sultan Iskandar (ISI)<br/>Senior Lecturer, Faculty of Built Environment &amp; Surveying, Universiti Teknologi Malaysia, Johor State, Malaysia<br/>馬來西亞吉隆坡 蘇丹伊斯干達研究所永續研究小組主任<br/>馬來西亞柔佛州 馬來西亞科技大學建築環境與測量學院高級講師<br/><br/>講題/Topic : (50 分鐘/50 minutes)<br/><b>Sustaining the Subak, Balinese Indigenous Ecological Knowledge : Issues and Challenges</b><br/>永續巴厘島原住民使用 Subak 農田灌溉組織的生態知識：議題與挑戰</li> <li>◆ <b>回應人 / Panelist : (40 分鐘/40 minutes)</b><br/>請針對受邀學者報告提出問題，或者以所領之研究計畫方向提出對應對話以及合作可能性的討論<br/>Comments and Feedback to Keynote             <ul style="list-style-type: none"> <li>- <b>賴孟龍助理教授 Assistant Professor Meng-Lung Lai</b><br/>Early Childhood Education, National Chiayi University<br/>國立嘉義大學幼兒教育學系<br/>(ISEP Project-D5)</li> <li>- <b>樂錯·祿璞峻岸副教授 Associate Professor Ljgay Rupeljengan</b><br/>Department of Earth Sciences, National Cheng Kung University<br/>國立成功大學地球科學系<br/>(ISEP Project-D6)</li> <li>- <b>謝百淇副教授 Associate Professor Paichi Pat Shein</b><br/>Center for Teacher Education, National Sun Yat-sen University<br/>國立中山大學師資培育中心<br/>(ISEP Project-D7)</li> </ul> </li> </ul> |



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|                            | <ul style="list-style-type: none"> <li>- <b>胡美智助理教授 Assistant Professor Mei-chih Hu</b><br/>                     Department of Child Development and Family Studies, Tzu Chi University<br/>                     慈濟學校財團法人慈濟大學兒童發展與家庭教育學系<br/>                     (ISEP Project-D8)</li> </ul>   |
| 16:10~16:20                | <b>中場休息 / Break</b>  |
| 16:20~17:30<br>(70minutes) | <b>交流與合作座談 / Conclusions</b>   |
|                            | <p>本座談目的在期待原住民族科學教育計畫能與 UNESCO ESD 計畫接軌，與國際學者借鏡經驗與對談，並期待合作之機會。<br/>                     The purpose of this session is to propose the ways to net the Indigenous Science Education Program(ISEP) and UNESCO ESD projects, and to seed the collaboration among regional ESD committee.</p> <ul style="list-style-type: none"> <li>◆ <b>主持人 / Moderator :</b><br/> <b>顏瓊芬 特聘教授 Distinguished Professor Chiung-Fen Yen</b><br/>                     Department of Ecological Humanities, Providence University, Taiwan<br/>                     靜宜大學 生態人文學系</li> <li>◆ <b>引言人 / Panelist :</b> <ul style="list-style-type: none"> <li>- <b>Professor Charles Hopkins</b><br/>                             UNESCO Chair in Reorienting Teacher Education, Office of the Dean, Faculty of Education, York University, Toronto, Canada</li> <li>- <b>熊同鑫教授 Professor Tung-Hsing Hsiung</b><br/>                             Department of Early Childhood Education, and Director of Research Center for Indigenous Education and Social Development, National Taitung University, Taiwan<br/>                             國立臺東大學幼兒教育學系</li> <li>- <b>王前龍副教授 Associate Professor Chien-Lung Wang</b><br/>                             Department of Education, National Taitung University, Taiwan.<br/>                             國立臺東大學教育學系</li> <li>- 所有計畫主持人及國外貴賓出席共同參與座談<br/>                             All projects representatives and international guests.</li> </ul> </li> </ul> |
| 17:30                      | <b>散會 / Adjourned</b>  |

| 2017 年 10 月 8 日 (星期一) 2018/10/8 Monday<br>原住民族實驗學校參訪 Experimental school visit<br>參訪學校：<br>臺東縣卑南鄉達魯馬克民族實驗小學 (大南國民小學)<br>Visiting school：<br>Darumak National Experimental Primary School (Taitung Elementary School) |   |
|--|---|
| 時間 Time  | 活動內容 Activity   |
| 08:50~09:00  | 飯店大廳報到 / Registration at hotel lobby<br>搭交通車前往參訪學校 Will take a bus to visit the school. |
| 9:30~10:00   | 抵達學校 / 參觀校園 Arrival at School / Visit Campus  |
| 10:00~11:00  | 校長簡報 / Principal Briefing   |
| 11:00~12:00  | 觀課及交流座談/ Lessons and Exchanges  |
| 12:00~14:30  | 原住民風味午餐 / Indigenous Style Lunch  |
| 14:30~16:00  | 部落社區參觀 / Tribal Community Visit   |
| 16:00~   | 返回飯店，散會<br>Return to Hotel / Closing Remarks  |