

RGC Ref. No.: <u>UGC/IDS23/15</u> (please insert ref. above)
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**RESEARCH GRANTS COUNCIL  
COMPETITIVE RESEARCH FUNDING SCHEMES FOR  
THE LOCAL SELF-FINANCING DEGREE SECTOR**

**INSTITUTIONAL DEVELOPMENT SCHEME (IDS)  
RESEARCH INFRASTRUCTURE GRANT**

**Completion Report**  
(for completed projects only)

**Submission Deadlines:**

1. Auditor's report with unspent balance, if any: within **six** months of the approved project completion date.
2. Completion report: within **12** months of the approved project completion date.

**Important Note:**

**In completing the report, please use the following format:**

Page limit: Items 1 to 5 and Summary of Completion Report: no page limit  
Items 6 to 9: maximum **20 A4 pages** (excluding any appendices and attachments)

Font: Times New Roman

Font Size: **Not smaller** than Point 12

Margin: Two centimeters margin all around

Spacing: Single-line spacing

**1. Project Title**

**Multi-disciplinary Research Centre 跨學科學術研究中心 (MRC)**

**2. Investigator(s) and Academic Department(s) / Unit(s) Involved<sup>#</sup>**

<b>Project Team</b>	<b>Name / Post</b>	<b>Department / Unit</b>	<b>Average Number of Hours Per Week Spent on this Project</b>
Project holder* (i.e. Head of Institution)	Dr. WONG Simon Chi-hong / Dean	School of Continuing Education	3-5%
	Prof. SO Raymond Wai-man / Dean (Approved by UGC on 4 August 2016)	School of Continuing Education	3-5%
	Dr. TSANG Lawrence Sui-keung / Acting Dean (Approved by UGC on 28 December 2017)	School of Continuing Education	1-3%
	Prof. CHUNG Ronald Chi-kit / Dean (Approved by UGC on 11 July 2018)	School of Continuing Education	3-5%
Team leader	Dr. LAU Sam shun-shun / Principal Lecturer	School of Continuing Education	40-50%

Team member(s)	Dr. DUAN Yanping / Assistant Professor & Programme Coordinator (Bachelor of Social Sciences (Hons) in Sport and Recreation Leadership)	Department of Sports and Physical Education, Faculty of Social Sciences	15-25%
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# Please state the **key** staff and department/unit involved in the project. Please add row(s) as necessary. Please also highlight the approved changes in project team composition and quote the date of the RGC approval for such changes.

\* Refer to "Applicant" for 2015/16 exercise and "Project holder" for 2017/18 exercise onwards.

### 3. Project Duration

	Original	Revised	Date of RGC / Institution Approval (must be quoted)
Project Start Date	1 January 2016		
Project Completion Date	31 December 2018		
Duration (in month)	36 months		
Deadline for Submission of Completion Report	31 December 2019		

### 4. Project Objectives

Summary of objectives addressed / achieved:

Milestones/objectives as described in the Implementation Timetable approved by RGC:	Percentage Achieved	Remarks**
1. Renovation of research infrastructure and office	100%	
2. Active Living Laboratory (ALL) completed	100%	
3. Social Science Research Laboratory (SSRL) completed	100%	
4. Testing and Analytical Laboratory (TAL) completed	100%	
5. Two supporting staff (Senior Research Assistant and Technical Officer) be recruited	100%	
6. Full operation of the MRC and the three labs	100%	
7. Two supporting staff (Project Assistant and Technical Assistant) be recruited	100%	
8. Academics can use the MRC and the labs for research studies and RGC grant implementation	100%	
9. Staff and students can use the three labs of MRC to collect data for research activities	100%	
10. Two Active Living workshops will be organized	100%	
11. An Active Living newsletter will be issued	100%	

<b>Milestones/objectives as described in the Implementation Timetable approved by RGC:</b>	<b>Percentage Achieved</b>	<b>Remarks**</b>
12. First Workshop on Environmental Studies will be organized	100%	
13. Data generation for research analyses using the three labs of MRC	100%	
14. An International Conference on Active Living will be organized	100%	
15. A post conference book will be published	100%	
16. Second Workshop on Environmental Studies will be organized	100%	
17. Report and possible publication of research results	100%	
18. Incorporation of laboratory analyses into student curriculum so as to engage students in conducting research	100%	

\* Please refer to the originally approved objectives. If there are changes in objectives, please highlight the changes and quote the date of RGC approval for such changes.

\*\* Please provide reasons for significant slower rate of progress when compared with the approved implementation timetable.


## 6. Research Outputs

### 6.1 What are the accomplishments of the project?

(i) Please provide reports on conference, seminar, workshop, exchange programmes or

*other activities held (if applicable).*

*(Please provide details of the activities organized, including the theme / objectives of the activities, targeted participants, attendance, analysis of participants, e.g. country of origin, research background, etc., evaluation forms of the activities and a summary of the participants' evaluation. Photos of the activities are preferred.)*

1	Area	Active Living
	Title	Workshops on Disability Sport Theory Learning and Field Practice
	Theme	The workshops aimed to familiarize the academics and students with the background of the physically disabled and the knowledge and practical skills in relation to disability sport
	Date	26 April 2017
	Speaker(s)	Dr. Allison Wong of Hong Kong Sports Association for the Persons with Intellectual Disability; Mr. Ricky Lau and Miss Tse Sau Kam of Hong Kong Paralympic Committee & Sports Association for the Physically Disabled
	Participants	Academics and students in Physical Education area
	Attendance	30
	Analysis of participants	Most of the participants were from Physical Education field
	Evaluation	Participants reflected that they not only learned theoretical knowledge of disability sport, but also grasped the sport skills of Bocce and Wheelchair Basketball through field practice.
		

2	Area	Environmental area
	Title	Workshop on Advanced Tools and Practices for Detection and Assessment of Internal Tree Decay
	Theme	The speaker delivered a speech on tree decay assessment and detection and demonstrated the use of the equipment in tree decay assessment
	Date	21 October 2017
	Speaker(s)	Mr. Kevin K. Eckert, President, Managing Director and Chief Consulting Arborist of Arbor Global Hong Kong Ltd. and Arbor Global USA
	Participants	Students and professionals who were interested in arboriculture
	Attendance	70
	Analysis of participants	Mostly from Environmental Conservation and Tree Management fields, including professionals
	Evaluation	Participants found the workshop very useful since the speaker explained the relationship between severity of wood decay and tree stability using his local and international experience. An introduction of the advanced tools, including tomograph and resistograph, gave participants a unique chance to understand the application of the professional tools in decay assessment of trees.

3	Area	Active Living
	Title	Workshop on Adventure-based Learning for the Future
	Theme	This workshop was related to adventure-based learning for the future. Internationally renowned speaker was invited to share his extraordinary teaching and research experience in the field of adventure-based learning
	Date	22 October 2017
	Speaker(s)	Prof. Katsumi Namba of Center for Tamagawa Adventure Program of Tamagawa University, Japan
	Participants	Academics and students in Physical Education field
	Attendance	94
	Analysis of participants	Most of the participants were from Physical Education field
	Evaluation	Students reflected that the workshop broadened their horizons in the adventure-based learning by means of academic knowledge learning and experiential practices.

4	Area	Active Living
	Title	Workshops on Theory- and Evidence-based Health and Physical Activity Promotion Research
	Theme	Internationally renowned speakers were invited to share their experience, ideas and research on health and physical activity promotion. Work-life balance, work-nonwork balance, health-compromising behaviors and other topics related to health were discussed. The experience in publication strategies was also shared during the workshop.
	Date	5-8 December 2017
	Speaker(s)	Prof. Ralf Schwarzer of Freie University of Berlin, Germany; Prof. Sonia Lippke of Jacobs University Bremen, Germany
	Participants	Academics, researchers and students from fields of Health Psychology and Sport Science
	Attendance	25
	Analysis of participants	Most of the participants were from the field of Sport Science
	Evaluation	Most of the participants agreed that the objectives of the workshop were achieved. They also agreed that the content was relevant to the subject area of the event and the knowledge gained from the event could be applied to their work/daily life. 90% of the participants were satisfied with the workshop. Some of the participants would appreciate some wider promotion of the workshop series.

5	Area	Environmental Area
	Title	Workshop - A Field Practice of Advanced Tools for Detection and Assessment of Internal Tree Decay
	Theme	This workshop included a field practice session. Speaker was invited to share his expertise and experience and provide a session on the practical skills and field techniques of using advanced professional tree assessment tools in the field
	Date	9 December 2017
	Speaker(s)	Dr. Peter Yau, Tree Expert & Managing Director of PSY Pty Ltd, Australia
	Participants	Students, academics, researchers and industry practitioners who were interested in arboriculture
	Attendance	22
	Analysis of participants	Most of the participants were from Environmental Conservation and Tree Management
	Evaluation	86% of the participants agreed that the objectives of the event were achieved. They also agreed that the content was relevant to the subject area of the event. Overall, more than 90% of the participants were satisfied with the event.

6	Area	Active Living
	Title	Elderly Research Workshop
	Theme	Health conditions (e.g. body fat and balance) of elderly participants were measured and tested. This workshop was held together with four elderly centres, including: <ol style="list-style-type: none"> <li>1. C &amp; M A - Cheung Hang Neighborhood Elderly Centre</li> <li>2. The Hong Kong Society for the Aged - Sage Wong Wha San Memorial Neighbourhood Elderly Centre</li> <li>3. Pok Oi Hospital - Mr. Kwok Hing Kwan Neighbourhood Elderly Centre</li> <li>4. Pok Oi Hospital - Mrs. Wong Tung Yuen District Elder Community Centre</li> </ol>
	Date	13, 18, 19 and 20 December 2017
	Speaker(s)/ Facilitator(s)	Mr. Wu Shing, Lecturer of Department of Physical Education
	Participants	Elderly people from nursing homes
	Attendance	57
	Analysis of participants	The elderly participants were all from nursing homes. All of them were above 65 years old. 74% of the participants were female.
	Evaluation	68% of the participants agreed that the objectives of the event were achieved. 74% of them agreed that the content was relevant to the subject area of the event. 65% of them agreed that the knowledge gained from the event could be applied to their work/daily life. 79% of the participants were satisfied with the event. The attitude of the tutors was highly commended.

7	Area	Environmental Area
	Name	Workshop on Tree Management Research Session
	Theme	The workshop discussed the importance of tree management in Hong Kong. All participants had hands-on experience in using tree assessment tools on trees in the field.
	Date	29 December 2017

Speaker(s)	Dr. Alvin Tang, Tree Expert and Lecturer in Tree Management
Participants	Academic, students and researchers who were interested in arboriculture and tree management research
Attendance	22
Analysis of participants	Most of the participants were from the areas of Environmental Conservation and Tree Management
Evaluation	Most of the participants responded that the objectives of the event were achieved. They also agreed that the content was relevant to the subject area of the event. Some participants mentioned that it was a precious chance to observe tree <u>decay</u> in the field.

8	Area	Social Science
	Title	Workshop - How the Quota Systems promotes the employment of people with disabilities - a case study of Guangdong Province
	Theme	The speakers shared their extensive experience, knowledge in social science research and latest development of social policies in China. Experiential session on using the phone survey system was provided.
	Date	30 January 2018
	Speaker(s)	Mrs. Anna Wong, Consultant, Channel Plus Ltd / Part-time Lecturer of Social Work Department / Registered Social Worker
	Participants	Students and researchers who were interested in social science research
	Attendance	38
	Analysis of participants	Most of the participants were from the areas of social work and social policy
	Evaluation	Most of the participants responded that the objectives of the event were achieved. They also agreed that the content was relevant to the subject area of the event.



9	Area	Social Science
	Title	Case Study Research: Design, Methods and Writing
	Theme	Day one: introduction and having hands-on experience in using phone survey system of the MRC; Day two: the workshop to empower students to conduct in-depth studies and apply their knowledge to real business problems (The workshop and training were co-organized by MRC and Programme of Bachelor of Commerce (Honours) in Human Resources Management, Department of Management, HKBU).
	Date	23 and 24 May 2018
	Speaker(s)	Dr. Caleb Chen, Research Associate of Chinese Businesses Case Centre, School of Business, Hong Kong Baptist University
	Participants	Students who were interested in social science research
	Attendance	72
	Analysis of participants	Most of the participants were from the area of human resources management
	Evaluation	Most of the participants responded that the objectives of the event were achieved. They also agreed that the content was relevant to the subject area of the event.

10	Area	Active Living
	Title	Workshop – Evaluation of Physical Fitness and Lifestyle of Older Adults
	Theme	Health conditions (e.g. body fat and balance) of elderly participants were measured and tested. This workshop was held together with four elderly centres, including: 1. Pok Oi Hospital - Mr. Kwok Hing Kwan Neighbourhood Elderly Centre 2. C & M A - Cheung Hang Neighborhood Elderly Centre 3. The Hong Kong Society for the Aged - Sage Wong Wha San Memorial Neighbourhood Elderly Centre 4. Pok Oi Hospital - Mrs. Wong Tung Yuen District Elder Community Centre
	Date	6, 9, 13 and 20 August 2018
	Speaker(s)	Mr. Wu Shing, Lecturer of Department of Sport and Physical Education; Dr. Sindy Lau, Research Associate of MRC
	Participants	Elderly people from nursing homes
	Attendance	54
	Analysis of participants	The participants were all from nursing homes. The age ranged from 60 to 92. 77% of the participants were female and 23% were male.
	Evaluation	70% of the participants agreed that the objectives of the event were achieved. 80% of them agreed that the content was relevant to the subject area of the event. 54% of them agreed that the knowledge gained from the event could be applied to their work/daily life. 83% of the participants were satisfied with the event. The attitude of the tutors was highly commended.

11	Area	Testing and Environmental Area
	Title	Workshop on Research training for New Student Helpers of Testing and Analytical Research Laboratory
	Theme	Brief introduction of the MRC laboratories, general laboratory safety guidelines and demonstration of instruments, such as ICP-OES, air sampler and freeze dryer.
	Date	26 September 2018
	Speaker(s)	Dr. Sam Lau, Principal Lecturer, School of Continuing Education, Hong Kong Baptist University; Dr. Ruby Chiu, Research Associate, Multi-disciplinary Research Centre, School of Continuing Education; Dr. Wallis Lam, Research Associate, Multi-disciplinary Research Centre, School of Continuing Education.
	Participants	Students who were interested in testing and environmental analysis
	Attendance	18
	Analysis of participants	Most of the participants were from science discipline
	Evaluation	Most of the participants responded that the objectives of the event were achieved. They also agreed that the content was relevant to the subject area of the event. Some participants mentioned that the knowledge learnt from instruments demonstration would be beneficial to them.

12	Area	Environmental Area
	Title	Workshop - Biochars in Pollution Control: The Potential in the Removal of Heavy Metals
	Theme	Presentation was delivered to the participants with introduction of biochar and the biochar research projects of MRC. The second part of the research workshop provided the participants with biochar sample examination using stereomicroscope and demonstration of ICP-OES for the determination of heavy metal content.
	Date	18 October 2018
	Speaker(s)	Dr. Sam Lau, Project Team Leader, Multi-disciplinary Research Centre,

		School of Continuing Education Dr. Wallis Lam, Research Associate, Multi-disciplinary Research Centre, School of Continuing Education
	Participants	Students and researchers who were interested in environmental research.
	Attendance	14
	Analysis of participants	Most of the participants were from science discipline
	Evaluation	Most of the participants responded that the objectives of the event were achieved. They also agreed that the content was relevant to the subject area of the event, especially on the applications of biochar and the demonstration of TAL instruments and equipment.

13	Area	Environmental Area
	Title	Research Seminar - Moving Governments & Communities towards Greater Resilience to Climate Impacts
	Theme	The speaker shared his expertise and experience in engaging the communities and government agencies in Los Angeles in water management using trees and forest-inspired technologies through an integrated approach. (The workshop was co-organized by Department of Biology of HKBU, Institute of Bioresource and Agriculture and the MRC.)
	Date	30 October 2018
	Speaker(s)	Mr. Andy Lipkis, Founder of TreePeople, USA
	Participants	Academics, students and researchers who had concern on climate impacts
	Attendance	58
	Analysis of participants	Some of the participants were from science discipline, especially environmental, biology. Some of them were civil servants.
	Evaluation	Most of the participants responded that the objectives of the event were achieved. They also agreed that the content was relevant to the subject area of the event especially on the real-life examples in water resilience.

14	Area	Social Science
	Title	Press Conference on the Survey Findings on Dental Services for Persons with Intellectual Disability (PID)
	Theme	Dental Services for Persons with Intellectual Disability
	Date	16 November 2018
	Speaker(s)	Dr. Sam Lau, Project Team Leader, Multi-disciplinary Research Centre, School of Continuing Education; Ms. Isabel Chen, Centre-in-Charge, The Hong Kong Joint Council of Parents of the Mentally Handicapped; Mr. Haston Liu, President, Hong Kong Dental Association Ltd.; Parent representatives.
	Participants	Reporters from different media organizations and Parents of PID
	Attendance	46
	Analysis of participants	In addition to the project team members, most participants included several reporters from different media organizations and parents of PID
	Evaluation	Several reporters from different media organizations attended and reported the Press Conference on the Survey Findings on the news coverage (please see 8.1 (1) for details). The objectives of the event were achieved.

15	Area	Active Living, Environment and Health
	Title	2018 International Conference on Active Living and Health
	Theme	<ol style="list-style-type: none"> <li>1. Physical activity and cognition, sleep and mental well-being</li> <li>2. Weight management and obesity</li> <li>3. Physical activity and quality of life in older adults</li> <li>4. Physical activity in patients and special populations</li> <li>5. Correlates of physical activity and dietary behaviours</li> <li>6. Intervention for promoting physical activity and healthy diet</li> <li>7. Narrative review and meta-analysis in health promotion</li> </ol>
	Date	24 – 25 November 2018
	Speaker(s)	<ol style="list-style-type: none"> <li>1. Prof. Thomas L. McKenzie of San Diego State University, USA</li> <li>2. Prof. Sonia Lippke of Jacobs University Bremen, Germany</li> <li>3. Prof. Julien S. Baker of University of the West of Scotland, UK</li> <li>4. Prof. Sebastien Chastin of Glasgow Caledonian University, U.K. and Ghent University, Belgium</li> <li>5. Prof. Cecilie Thøgersen-Ntoumani of Curtin University, Australia</li> <li>6. Dr. Jason A. Bennie of University of Southern Queensland, Australia</li> <li>7. Prof. Gladys Shuk Fong Li of National Chung Cheng University, Taiwan</li> <li>8. Prof. Hsiu-Hua Wang of National Chung Cheng University, Taiwan</li> </ol>

		9. Prof. Bik Chu Chow of Hong Kong Baptist University, Hong Kong 10. Dr. Allison Wong of Hong Kong Sports Association for Persons with Intellectual Disability
	Participants	Academics and researchers from a number of local and mainland universities
	Attendance	264
	Analysis of participants	60 paper and poster presentations in a wide variety of themes had been received, speakers/participants included academics, researchers and students from Hong Kong, the Mainland and overseas.
	Evaluation	Most of the participants reported that the objectives of the conference had been achieved and satisfied with the conference.

- (ii) *Please provide reports on asset purchase such as acquisition of research facilities, communal equipment, software licence, dataset and / or status of infrastructure / physical research structure building such as research centre, research supporting unit (if applicable).*  
(Please provide supporting documents and / or photos, and provide the utilization rate.)
- (iii) *Please provide reports on research activities carried out (if applicable).*

6.2 Please describe where and how the IDS Research Infrastructure Grant project assisted in building up the research capacity of the institution in its strategic areas (e.g. has the IDS Research Infrastructure Grant project facilitated the academics in formulating their research proposals under the Faculty Development Scheme, etc.).

The Multi-disciplinary Research Centre, covering three newly established laboratories, Active Living Laboratory, Social Science Research Laboratory and Testing and Analytical Laboratory, located 5/F, 9/F and 12/F on Shek Mun Campus of the School of Continuing Education, Hong Kong Baptist University equipped with different instruments (refer to section 6.1(ii)) assisted in building up the research capacity of the SCE and serving as a centralized platform to promote communication, exchange and collaboration of research and to support the staff and students to carry out research in their related discipline.

As a result, a number of **research projects** involving different faculty members across units/divisions were initiated, including:

- Biochars for agricultural soil amendments: heavy metal removal potential (In collaboration with Prof. Jonathan Wong of Department of Biology and Institute of Bioresource and

Agriculture)

- Indoor and outdoor air pollution in Hong Kong
- Soil fertility investigation of local organic farm soils (In collaboration with Prof. Jonathan Wong of Department of Biology and Institute of Bioresource and Agriculture)
- Environmental geochemistry (In collaboration with Dr. M Yasuhara of University of Hong Kong, Dr. TM Cronin of US Geological Survey, Prof. K Fujita of University of the Ryukyus and Prof. A Kitamura of Shizuoka University)
- Survey on Dental Services for Persons with Intellectual Disability (In collaboration with The Hong Kong Joint Council of Parents of the Mentally Handicapped)
- Revisiting the pattern of youth transition: The Interrelationship between labor market insecurity and residential autonomy among young working people in Hong Kong (In collaboration with Dr. Chan Kaki, Lecturer of Department of Social Work, Hong Kong Baptist University)
- Environmental variability and wetland invasive species (In collaboration with Dr. Stephen R. Cartwright of SCE of HKBU, Prof. Richard B Owen of Department of Geography of HKBU, Prof. Jonathan Wong of Department of Biology and Institute of Bioresource and Agriculture)
- The impact of self-esteem and meaning in life on career adaptability among human resources management undergraduates: A two-phase study (in collaboration with Dr. Tracy Y. C. Hui , Lecturer of Department of Management, Hong Kong Baptist University and Dr. Mantak Yuen, Associate Professor, Faculty of Education, University of Hong Kong)
- Pilot study of the relationship between walking and fat percentage of community-dwelling adults
- The association of fruit and vegetables (FVs) consumption and depression in elderly in Hong Kong (in collaboration with Dr. YP Duan, Mr. Shing Wu and Ms. CK Lam of Department of Sport and Physical Education)
- The Relationship between Snack Packaging Colour and Buying Decision (in collaboration with Dr. Maggie FUNG, Programme Director of BSSc (Hons) in Integrated Communication Management of School of Communication)

The IDS project had led to initiation of a diverse range of research and practical/training **workshops and conference/press conference** with organizations/personnel in different disciplines to enhance the interest and atmosphere of research among the staff and students of the institution. They included:

- Workshops on Disability Sport Theory Learning and Field Practice
- Workshop on Advanced Tools and Practices for Detection and Assessment of Internal Tree Decay
- Workshop on Adventure-based Learning for the Future
- Workshops on Theory- and Evidence-based Health and Physical Activity Promotion Research
- Workshop - A Field Practice of Advanced Tools for Detection and Assessment of Internal Tree Decay
- Elderly Research Workshops
- Workshop on Tree Management Research Session
- Workshop - How the Quota Systems promotes the employment of people with disabilities - a case study of Guangdong Province
- Case Study Research: Design, Methods and Writing
- Workshop – Evaluation of Physical Fitness and Lifestyle of Older Adults
- Workshop on Research training for New Student Helpers of Testing and Analytical Research Laboratory
- Workshop - Biochars in Pollution Control: The Potential in the Removal of Heavy Metals
- Research Seminar - Moving Governments & Communities towards Greater Resilience to

#### Climate Impacts

- Press Conference on the Survey Findings on Dental Services for Persons with Intellectual Disability (PID)
- 2018 International Conference on Active Living and Health

Please see 6.1(i) for details.

The MRC had cultivated the research culture amongst SCE colleagues, and to further support pilot phase of a research project to derive data for preparing external grant application (e.g. RGC Faculty Development Grant), the **SCE Seed Grant Funding Scheme** was established in Fall 2018 to provide seed funding to assist SCE academic/teaching staff in conducting exploratory research studies for their preparation of application of external funding from government, industry and other funding sources.

For the round of 2018/19, a total of 6 applications from SCE colleagues have been received and 4 of them have been awarded the Seed Grant Fund. These awardees could use the MRC as appropriate with an internal rental waiver. The projects covered a number of research areas, such as promotion of human health, Hong Kong history and performance of social enterprises. Another 6 applications have been received for the round of 2019/20, and the proposals are being reviewed by review panels. The funding result will be announced in January 2020. The applications cover various research areas, such as environment and human health, health education promotion, mental health, performance model, cross-cultural teaching and learning, and consumer behaviours.

The IDS RIG project on MRC had also facilitated the development of a number of **relevant proposals for external grants and relevant research projects (e.g. environment and health, career preparedness of university students)**. Examples of proposals for external grants are as follows:

- 1 RGC IDS RIG proposal and 5 FDS (in the areas of Psychology, Early Childhood Education, Sports and Physical Education, Film, Environmental education, and Environmental change and public health) in preparation for the 2020/21 exercise
- 1 RGC IDS RIG and 6 FDS proposals (in the areas of Psychology, Environmental education, Environmental change and public health, and Social Work) for the 2019/20 exercise
- 1 PICO PPR proposal for the special round of application in 2019
- 1 ECF EE&CA Project proposal for the Second round of application 2019/20
- 1 Subventions for Biodiversity Education in 2019
- 1 proposal for the Environmental Conservation Fund in 2018

We will continue our efforts to develop funding proposals to secure external research grants.

#### 6.3 If the project has not met its original objectives, why?

The project has met its original objectives.

#### 6.4 (a) Please provide details e.g., title, authorship, publication dates, etc. and attach an abstract of each publication reported. Please place asterisks on publications involving inter-institutional collaborations.

The following journal/ paper/ report /conference presentations were published/ presented:

Publication/ Conference	Location of conference, if applicable	Date of publication/ conference	Authors	Title
1. Bioresource Technology Reports, Volume 8, 100323 ( <a href="https://doi.org/10.1016/j.biortech.2019.100323">https://doi.org/10.1016/j.biortech.2019.100323</a> )	N.A.	December 2019	- Dr. Sam Lau, MRC - Dr. Lam Yan Yan, MRC - Prof. Jonathan Wong, Department of Biology	Removal of Cd(II) from aqueous solutions using plant-derived biochar: Kinetics, isotherm and characterization
2. Report on Dental Services for Persons with Intellectual Disability (PID) in Hong Kong	N/A	November 16, 2018	- Dr. Sam Lau, MRC - Dr. Mandy Mao, MRC - Ms. Isabel Chen, The Hong Kong Joint Council of Parents of the Mentally Handicapped	Report on Dental Services for Persons with Intellectual Disability (PID) in Hong Kong
3. 2018 International Conference on Active Living and Health Conference	N/A	November 2018	Edited by - Dr. Sam Lau, MRC - Dr. YP Duan, Department of Sport and Physical Education - Dr Sindy Lau, MRC	Conference Proceedings on Active Living and Health
4. 2018 International Conference on Active Living and Health	N/A	December 2018	Edited by - Dr. Sam Lau, MRC - Dr. YP Duan, Department of Sport and Physical Education - Dr Sindy Lau, MRC	Post Conference Book on Active Living and Health
5. The 9th Conference on Taiwan Wetland Ecosystems, Taiwan Wetland Society	National Taiwan University, Taipei	5 May 2018	- Dr. Sam Lau, MRC - Dr. Ruby Chiu, MRC - Prof. Jonathan Wong, Department of Biology	Oral presentation: “Wetland Conservation in Hong Kong: Lessons of Invasive Species (香港濕地 保育經驗- 以外來 入侵物種為例)”
6. 2018 International Wetland Convention	Fubon Life Insurance Building International Conference Center, Taipei	21-22 November 2018	- Dr. Sam Lau, MRC	Invited keynote presentation: “Management and Conservation of Hong Kong Wetlands: Understanding the Threat Landscape”



7. 2018 International Wetland Convention	Fubon Life Insurance Building International Conference Center, Taipei	21-22 November 2018	<ul style="list-style-type: none"> <li>- Dr. Sam Lau, MRC</li> <li>- Dr. Ruby Chiu, MRC,</li> <li>- Dr. SR Cartwright, Environment Conservation Studies</li> <li>- Prof. RB Owen, Department of Geography,</li> <li>- Prof. Jonathan Wong, Department of Biology</li> </ul>	Poster presentation: "Evaluation of Threats Faced by Benthic Invertebrates in Hong Kong Wetland using Micropaleontological and Neontological Approach"
8. 2018 International Conference on Active Living and Health	Hong Kong Baptist University, Hong Kong	24-25 November 2018	<ul style="list-style-type: none"> <li>- Dr Sam Lau, MRC</li> <li>- Mr. Shing Wu, Department of Sport and Physical Education</li> <li>- Dr. Yanping Duan, Department of Sport and Physical Education</li> <li>- Ms Chi Kei Lam, Department of Sport and Physical Education</li> </ul>	Oral presentation: "Relationships of Correlates, Risk of Falling and Health Outcomes among community-dwelling Hong Kong Elderly"
9. 2018 International Conference on Active Living and Health	Hong Kong Baptist University, Hong Kong	24-25 November 2018	<ul style="list-style-type: none"> <li>- Dr Sam Lau, MRC</li> <li>- Dr. Sindy Lau, MRC</li> <li>- Dr Yanping Duan, Department of Sport and Physical Education</li> <li>- Mr. Shing Wu, Department of Sport and Physical Education</li> <li>- Ms Chi Kei Lam, Department of Sport and Physical Education</li> </ul>	Poster presentation: "The Association of Fruit and Vegetables (FVs) Consumption and Depression in Elderly in Hong Kong"
10. 2018 International Conference on Active Living and Health	Hong Kong Baptist University, Hong Kong	24-25 November 2018	<ul style="list-style-type: none"> <li>- Dr Sam Lau, MRC</li> <li>- Dr. Mandy Mao, MRC</li> </ul>	Poster presentation: "Dental Health and Active Living of Persons with Intellectual Disability (PID) in Hong Kong"

11. AGU Fall Meeting 2018	Washington D.C., U.S.A	10-14 December 2018	<ul style="list-style-type: none"> <li>- Dr. Ruby Chiu, MRC</li> <li>- Dr Sam Lau, MRC</li> <li>- Dr. Wallis Lam, MRC</li> <li>- Prof. Moriaki Yasuhara, School of Biological Sciences and Swire Institute of Marine Science, University of Hong Kong</li> <li>- Dr. Thomas M. Cronin, US Geological Survey, USA, Akihisa Kitamura, Institute of Geosciences, Shizuoka University, Japan</li> <li>- Prof. Kazuhiko Fujita, Department of Physics and Earth Sciences, University of the Ryukyus, Japan</li> </ul>	Poster presentation: "Holocene Shell Geochemical and Paleocological Records of a Submarine Cave in Okinawa, Japan"
12. Hong Kong International Conference on Engineering and Applied Science	Hong Kong	18-20 December 2018	<ul style="list-style-type: none"> <li>- Dr. Sam Lau, MRC</li> <li>- Dr. Wallis Lam, MRC</li> <li>- Prof. Jonathan Wong, Department of Biology</li> </ul>	Oral Presentation: "Biochar Derived from Oil Seed Rape Straw as Effective Adsorbents for Removal of Cadmium(II) in Aqueous Solution"

In addition, the following were published:

Title	Authorship	Publication dates
1. MRC User Guidelines and Procedures (Attachment 4)	Edited by Dr. Sam Lau and Mr. Wilson Leung	December 2017
2. MRC Newsletter (2017 Issue) (Attachment 5)	Edited by Dr. Sam Lau and MRC Team	December 2017
3. Active Living Newsletter (Attachment 6)	Edited by Dr. YP Duan	January 2018
4. MRC Newsletter (2018 Issue) (Attachment 7)	Edited by Dr. Sam Lau and MRC team	December 2018

- (b) RGC funding should have been acknowledged in all activity(ies) / publication(s) / conference(s) papers listed in (a) above. If no acknowledgement has been made in any of the event / publication / paper, please indicate and provide explanations.

RGC funding have been acknowledged in all activity(ies) / publication(s) / conference(s) papers listed in (a) above.

## 6.5 Research staff trained

*(Please provide names and capacities of research staff trained and elaborate on what training has been provided.)*

	TAL equipment training, e.g. Leica stereomicroscope, ICP-OES, air samplers, freeze dryer
	TAL equipment training, e.g. Leica stereomicroscope, ICP-OES, air samplers, freeze dryer ALL equipment training, e.g. treadmill, actigraph accelerometer, back-chest-leg dynamometer, body composition analyzer
	ALL equipment training, e.g. treadmill, actigraph accelerometer, back-chest-leg dynamometer, body composition analyzer
	SSRL Telephone Survey System ALL equipment training, e.g. treadmill, actigraph accelerometer, back-chest-leg dynamometer
	SSRL Telephone Survey System TAL equipment training, e.g. air samplers and indoor air quality monitoring instrument
	TAL equipment training, e.g. air samplers and indoor air quality monitoring instrument
	SSRL Telephone Survey System TAL equipment training, e.g. air samplers and indoor air quality monitoring instrument
	TAL equipment training, e.g. Leica stereomicroscope, ICP-OES, air samplers, freeze dryer Training in micropaleontology and sedimentology
	TAL equipment training, e.g. ICP-OES ALL equipment training, e.g. treadmill, actigraph accelerometer, body composition analyzer
	SSRL Telephone Survey System TAL equipment training, e.g. ICP-OES, resistograph, tomograph
	SSRL Telephone Survey System TAL equipment training, e.g. ICP-OES, resistograph, tomograph ALL equipment training, e.g. treadmill, actigraph accelerometer, back-chest-leg dynamometer, body composition analyzer
	SSRL Telephone Survey System TAL equipment training, e.g. ICP-OES, resistograph, tomograph, air samplers and indoor air quality monitoring instrument ALL equipment training, e.g. treadmill, actigraph accelerometer, back-chest-leg dynamometer, body composition analyzer

	SSRL Telephone Survey System
	SSRL Telephone Survey System
	ALL Cardiovascular & respiratory fitness assessment instrument ALL Muscular strength & endurance assessment instrument
	ALL Cardiovascular & respiratory fitness assessment instrument ALL Muscular strength & endurance assessment instrument
	ALL Cardiovascular & respiratory fitness assessment instrument ALL Muscular strength & endurance assessment instrument
	TAL equipment training, e.g. ICP-OES, air samplers
	TAL equipment training, e.g. ICP-OES, air samplers
	TAL equipment training, e.g. ICP-OES, air samplers

#### 6.6 Specific products

*(e.g. patents, software or netware, instruments or equipment, infrastructure developed)*

The IDS project focused on expanding the research capacity of the institution and initiating exchanges and collaboration with different academics across disciplines and other institutions/organizations. With respect to the infrastructure development, the SCE Multi-disciplinary Research Centre (MRC) was established with a total of 3 laboratories set up, including Active Living Laboratory, Testing and Analytical Laboratory, and Social Science Research Laboratory.

#### 6.7 Other education activities and / or training and development

Over 140 students from different academic disciplines including environmental, social sciences, testing and physical education were trained on the use of MRC instruments and facilities for research activities, the conducting of research activities/projects for the MRC, and/or for conducting of Honours projects.

- 6.8 Please highlight any deliverables indicated in the project implementation timetable endorsed by RGC, which have not been covered or achieved as per sections 6.1 to 6.7 above, and explain / elaborate.

N/A

- 6.9 Please elaborate the role of the managing team in coordinating and managing the project.

The Research Management Committee (RMC) has been established by the School of Continuing Education (SCE) soon after the establishment of the Multidisciplinary Research Centre (MRC) in 2017 and is chaired by a senior academic of SCE for the purpose of monitoring and management of the IDS project. Two meetings were held on 14 August and 11 December 2017, and one meeting was held on 5 June 2018. Please see Attachment 8 for the Terms of Reference, membership composition and extracts of the the meeting minutes.

As per RMC's decision, since September 2017, monthly reports of the MRC were prepared by the Project Team and submitted to RMC to report the progress of the project and the activities of MRC. Please see Attachment 9 for the 16 no. monthly reports submitted to RMC from September 2017 to December 2018.

## 7. Awards And Recognition

- 7.1 Have any research grants been awarded that are **directly** attributable to the results obtained on this IDS Research Infrastructure Grant project? *(Please provide details)*

The MRC had facilitated the establishment of research culture of SCE leading to the development of a number of proposals, including:

- 1 RGC IDS RIG proposal and 5 FDS (in the areas of Psychology, Early Childhood Education, Sports and Physical Education, Film, Environmental education, and Environmental change and public health) in preparation for the 2020/21 exercise
- 1 RGC IDS RIG and 6 FDS proposals (in the areas of Psychology, Environmental education, Environmental change and public health, and Social Work) for the 2019/20 exercise
- 1 PICO PPR proposal for the special round of application in 2019
- 1 ECF EE&CA Project proposal for the Second round of application 2019/20
- 1 Subventions for Biodiversity Education in 2019
- 1 proposal for the Environmental Conservation Fund in 2018

We will continue our efforts to develop funding proposals to secure external research grants.

- 7.2 Other awards and recognitions as a result of this IDS Research Infrastructure Grant project *(Please specify)*

The poster entitled “The Association of Fruit and Vegetables (FVs) Consumption and Depression in Elderly in Hong Kong” which was co-authored by Dr. Sindy Lau (MRC), Dr. Yanping Duan (Department of Sport and Physical Education (SPE), Mr. Shing Wu (SPE), Dr. Chi Kei Lam (SPE) and Dr. Sam Lau (MRC), was awarded ‘the Best Poster Presentation Award’ in 2018 International Conference on Active Living and Health.

Dr. Sam Lau (MRC) was invited as a keynote speaker for an international conference, 2018 International Wetland Convention in Taiwan on “Management and Conservation of Hong Kong Wetlands: Understanding the Threat Landscape” (please see 6.4 (a), no.6 for details).

## 8. Other Impacts

8.1 What are the current and expected impacts of the project in terms of its contribution to the local and regional economic and societal well-being? (*e.g., technology transfer, collaboration with external organizations, etc.*)

1) A press conference on the research project “Survey Findings on Dental Services for Persons with Intellectual Disability (PID)” was held on 16 November 2018 to present the survey findings of the project. Dr. Sam Lau of SCE and Ms. Isabel Chen from The Hong Kong Joint Council of Parents of Mentally Handicapped (HKJCPMH) presented the survey findings and took questions in the Q&A part. The press conference was covered by the media, including on.cc, TOPick and RTHK on 16 November 2018.

Importantly, the research findings provided concrete evidence of the difficulties the private dentists encountered when serving PID and published a private dentist list who are willing to serve PID in Hong Kong. The findings provided a foundation for future dental service policy initiatives for PID, promoted the awareness of the general public and government on the dental services for PID, and promoted accessible and appropriate dental care for PID.

2) In partnership with the World Green Organization (WGO), the preliminary monitoring results of a pilot study of black carbon pollution were shared by Dr. Sam Lau of SCE in a discussion session with Mr. Wong Kam Sing, Secretary for the Environment and Dr. William Yu, CEO of WGO at an event organized by WGO in Central on 25 November 2018. The findings were covered by Oriental Daily and on.cc on 26 November 2018. The research findings promoted the public awareness and understanding of a less known air pollutant, black carbon in the urban environment in Hong Kong and also brought it to the attention of the related government department, Environmental Protection Department.

3) The workshop on “Evaluation of Physical Fitness and Lifestyle of Older Adults” and the Elderly Research Workshops received positive feedback and promoted the awareness and understanding of health and well-being of the elderly and the elderly centres. The possibility of conducting similar workshops in collaboration with local elderly centres could be explored.

8.2 Others (*Please specify*)

N/A

## 9. Statistics on Research Outputs

No. of outputs arising directly from this project	Peer-reviewed Journal Publications	Conference Papers/ Abstracts	Scholarly Books, Monographs and Chapters	Patents Awarded	Other Research Outputs (please specify)	
					Type	No.
	1	8	1 (Post Conference Book)	N/A	Report	1

## 10. Sustainability of The IDS Research Infrastructure Grant

### 10.1 Whether there are new ideas evolved directly from the project?

The MRC had facilitated the development of new ideas of research, in particular in the following areas:

- **Environmental change and public health** – focusing on the interplay between the environment and human health, e.g. Perceived air quality and its relationship with particulate matter air pollution, including PM and black carbon, in urban green parks in high-density Hong Kong
- **Nature and human health** – focusing on the benefits of natural environment on human health in a compact, urbanized living environment and the factors contributing to the benefits, e.g. Psychosocial and physiological health benefits of a three-week nature-based well-being intervention on university students
- **Environmental education and pro-nature behavior** – focusing on the effect of environmental education experience on the perception, attitude and behavior of environment and nature and also environmental sustainability, e.g. Experience of nature environmental education affect human's knowledge, attitude and behaviours; Nature Connection: First Steps into Nature - Environmental Education Programme for Kindergarten Teachers and Children; Human-Nature Connectedness: Appreciating the Beauty and Benefits of Forest Biodiversity
- **Career adaptability of self-financed post-secondary students** – focusing on the factors determining the careers perception and occupational identify, e.g. The perception of university students to career preparation and readiness and their anxiety and stress level

### 10.2 Whether there are new projects evolved directly from the project?

The MRC had facilitated the development of a number of new proposals/projects, including:

- 1 RGC IDS RIG proposal and 5 FDS (in the areas of Psychology, Early Childhood Education, Sports and Physical Education, Film, Environmental education, and Environmental change and public health) in preparation for the 2020/21 exercise
- 1 RGC IDS RIG and 6 FDS proposals (in the areas of Psychology, Environmental education, Environmental change and public health, and Social Work) for the 2019/20 exercise
- 1 PICO PPR proposal for the special round of application in 2019
- 1 ECF EE&CA Project proposal for the Second round of application 2019/20
- 1 Subventions for Biodiversity Education in 2019
- 1 proposal for the Environmental Conservation Fund in 2018

### 10.3 Whether there are new collaborations developed directly from the project?

The MRC had initiated a number of new collaborations with various academics of different departments, institutes and organizations.

### 10.4 Please give details on how much money and from which sources has been obtained for the specific purpose of continuing the work started under this IDS Research Infrastructure Grant project.

In continuing the work started under the IDS, a number of proposals were submitted to different funding schemes, including:

- 1 RGC IDS RIG proposal and 5 FDS (in the areas of Psychology, Early Childhood Education, Sports and Physical Education, Film, Environmental education, and Environmental change and public health) in preparation for the 2020/21 exercise
- 1 RGC IDS RIG and 6 FDS proposals (in the areas of Psychology, Environmental education, Environmental change and public health, and Social Work) for the 2019/20 exercise
- 1 PICO PPR proposal for the special round of application in 2019
- 1 ECF EE&CA Project proposal for the Second round of application 2019/20
- 1 Subventions for Biodiversity Education in 2019
- 1 proposal for the Environmental Conservation Fund in 2018

We will continue our efforts to develop funding proposals to secure external research grants.



**11. Public Access Of Completion Report**

*(Please specify the information, if any, that cannot be provided for public access and give the reasons.)*

<b>Information that Cannot Be Provided for Public Access</b>	<b>Reasons</b>
<ol style="list-style-type: none"> <li>1. All photos of activities/ events (listed in point 6.1(i))</li> <li>2. Description on where and how the IDS RIG project assisted in building up the research capacity of the institution in its strategic areas (point 6.2)</li> <li>3. Research Staff trained (point 6.5)</li> <li>4. Awards and Recognition (point 7.1)</li> <li>5. Sustainability of the IDS Research Infrastructure Grant (point 10)</li> </ol>	<ol style="list-style-type: none"> <li>1. Photos of participants should be kept confidential according to the Personal Data (Privacy Ordinance)</li> <li>2. For items 2-5 stated in the left column are restricted data/ information according to the internal development plan.</li> </ol>

RGC Ref. No.:

UGC/IDS23/15

(please insert ref. above)

**INSTITUTIONAL DEVELOPMENT SCHEME (IDS)  
RESEARCH INFRASTRUCTURE GRANT**

**Summary of Completion Report**

*(Please list all the stages since project inception)*

Project Title: Multidisciplinary Research Centre 跨學科學術研究中心 (MRC)

Stage Completed	Period		Milestones	
			Deliverables to be Achieved <sup>2</sup> (Please summarize in <u>three</u> bullet points where details should be left to the report proper)	% of Each Deliverable Achieved <sup>3</sup>
	(Month / Year) to (Month / Year)			
	Jan-Dec 2016		1. Renovation of research infrastructure and office 2. Completion of three laboratories (Active Living Laboratory (ALL), Social Science Research Laboratory (SSRL) and Testing and Analytical Laboratory (TAL)) 3. Recruitment of two supporting staff (Senior Research Assistant and Technical Officer)	1. 10% 2. >95%** 3. N/A (recruitment in progress)
	Jan-Dec 2017		1. Full operation of the MRC and the three labs 2. Various workshops were organized in 2017 3. Staff and students can use MRC to collect data for research and the related activities	1. 100% 2. 100% 3. 100%
	Jan-Dec 2018		1. 2018 International Conference on Active Living and Health was organized and a post conference book was published	1. 100% 2. 100% 3. 100%

Stage Completed	Period	Milestones	
	(Month / Year) to (Month / Year)	<p align="center"><b>Deliverables to be Achieved<sup>2</sup></b> (Please summarize in <b>three</b> bullet points where details should be left to the report proper)</p>	<p align="center"><b>% of Each Deliverable Achieved<sup>3</sup></b></p>
		<p>2. Various workshops were organized in 2018 3. Research results were presented in conferences and news articles</p>	
<b>Total to-date:</b> \$			

- Note:
- <sup>1</sup> Justifications for significant under-spending or over-spending ( $\geq \pm 10\%$ ) should be given in **section 5.1** of the completion report.
  - <sup>2</sup> The key milestones to be achieved by the project within the respective stage as indicated in the approved implementation timetable.
  - <sup>3</sup> Justifications for significant slower rate of progress compared with the approved implementation timetable should be provided in detail in **section 4** of the completion report.
- \*\* The deliverable was 100% achieved soon after the 1<sup>st</sup> year of the Project.