SUSTAINABILITY ANNUAL REPORT
2017/18
EXECUTIVE SUMMARY

This paper summaries some of the key sustainability related activities that the University has been engaged in during 2016/17. It begins with a short introduction on concepts, in order to provide context for the academic and engagement related work, much of which has been focused on the UN Sustainable Development Goals (SDGs). The SDG Accord provides the University commitment, and lays the foundation for meaningful partnership opportunities working with the Students’ Union, Student Green Office, and the local community.

The Responsible Futures Partnership has driven the use of existing university (UKES) and national (NUS) surveys to provide insight into development of Graduate Attributes and sustainability skills respectively. High CCCU participation rates in the NUS Skills survey are particularly attributed CCSU publicity, with broad engagement from all years and academic faculties. The Green Impact Partnership between the Students’ Union and the Student Green Office continues to thrive, with nine joint events being held through to March 2018.

The Futures Initiative continues to support innovative curriculum development work, with alignment to the SDGs, Personal Development week, and global citizenship. There is interesting work emerging around building personal sustainability stories, and the use of a smart phone app to provide gamification for sustainability.

In November 2017 the Faculty of Arts and Humanities hosted a successful international symposium, linking social values, theology and spirituality towards sustainability. The following day, the Faculty of Education scholarship day, asked important questions about what education might look like, by linking with modern economic thinking. Memorandums of Understanding with the Bay Trust and the Kent Wildlife Trust cement long-standing relationships, which led to a successful 2-day Futures Summit at Pines Calyx, and the potential for an interdisciplinary MA programme on sustainable coastal communities.

On-going continual improvement across the University, driven by the EMS and a wide selection of University staff, resulted in our first Green Gown Award, at a national and international level. Underpinning EMS infrastructure continues to operate effectively, as demonstrated by a good score in the People & Planet University League; however, resource setbacks continue to challenge our ability to maintain continual improvement.

Two significant developments in university operations came to fruition during the year. The agreement to change the University copier paper from recycled to virgin Woodland Trust paper, provides a win-win scenario for cost savings (12%) and for sustainability. After a year of electrical data analysis and adjustment in plant operation at Augustine House, the EMT (Energy Metering Technology) pilot resulted in a 29% reduction in energy use in a single year. Phased implementation across the Canterbury Campus, for all utilities, is on-going and further reductions are expected, as resource allows.

Unfortunately, resourcing issues have not only put the EMS at risk, but have also resulted in an almost complete halt to the Edible Campus and Beer, Bread and Honey initiative, along with other innovative campus-based engagement activities. However, the University’s heritage hops continue to form the basis for our heritage green hop ale; ‘St Thomas Ale’ (2017), and ‘St Gregory’s Anniversary Ale’ (2018), celebrating 100 years since the signing of the Armistice.

Christ Church staff continue to provide leadership for sustainability to the rest of the sector, through EAUC Board membership, sector project development, European funded ERASMUS+ Programme, and authorship of a new Bloomsbury Academic title on ‘Leadership for Sustainability in Higher Education’
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1. INTRODUCTION

Sustainability is a complex concept, which makes it challenging to report on effectively. This introduction presents a variety of concepts that provide different entry points to or views of sustainability, with the aim of providing context for the sustainability related work of the University.

The traditional view of sustainable development defined by the Brundtland Commission (1987) as “...development that meets the needs of the present without compromising the ability of future generations to meet their own needs.” now seems simplistic and out of focus. For many it is problematic due to its developmental standpoint, and the financial and social conditions implied, although its underlying intent is without question.

30 years on, the world is a very different place, moving ever closer towards ecological overshoot with a rapidly expanding population.

Global Goals, Economics and Social Foundation

2015 was a momentous year for global sustainability with the adoption of UN Sustainable Development Goals (SDGs).

![Fig. 1: UN Sustainable Development Goals](image)

Fig. 1: UN Sustainable Development Goals

Whilst simple and intuitively appealing, the SDGs provide a somewhat segregated and instrumental view of sustainability. Unpacking, and demonstrating the links to other Goals can be helpful, as demonstrated by the work of the World Health Organisation (WHO).

![Fig. 2: SDG 3 illustrating links to all other SDGs](image)

Fig. 2: SDG 3 illustrating links to all other SDGs

However, it is all too easy to see the SDGs as a panacea, especially in the context of higher education, and forget that we have a role to be critical as well supportive.

Even more illustrative of the effect of ecological impact on social foundation is the simple Billiard Ball Model, developed by the Overseas Development Institute (ODI) that illustrates how climate change has direct and interlinked knock-on effects on other resources and social issues.

![Fig. 3: ODI Billiard Ball Model](image)

Fig. 3: ODI Billiard Ball Model

Goal 8 (Decent work and economic growth) presents a particular issue, since in a neoliberal global society, it is economic growth and its link to GDP, which is presented as one of the key reasons why the world is finding it so difficult to change.

This is an argument made most powerfully by Kate Raworth, author of Doughnut Economics...
(2017). By redrawing the core concepts of the SDGs, as a “doughnut of social and planetary boundaries” Raworth provides a “simple visualisation of the dual conditions that underpin collective human well-being”. The aim is to bring humanity into the “safe and just space” between the outer and inner rings of the doughnut through a regenerative and distributive economy.

One implication is that the ecological university should be responsive to the needs of the community and should seek to incorporate real world concerns into its teaching and learning. Another implication is that operationally it should seek to support and promote the health and well-being of all its stakeholders. The notion of the health promoting university has gained ground in recent years, in the UK and worldwide, and more recently supported by the international charter for health promoting universities (Okanagan Charter) formulated in 2015. This defines health promoting universities as those which,

“transform the health and sustainability of our current and future societies, strengthen communities and contribute to the wellbeing of people, places and the planet.”

creating campuses centred on a culture of

“compassion, well-being, equity and social justice’ thereby strengthening the ecological, social and economic sustainability of both local communities and wider society.

and defines a healthy university as one that

“adopts a holistic understanding of health; takes a whole university approach; and aspires to create a learning environment and organisational culture that enhances the health, wellbeing and sustainability of its community and enables people to achieve their full potential”

So, the idea of both the ecological university and the health promoting university focuses attention on the culture that lies at its heart, and also challenges us to question and redefine the purpose of HE. They have the striking advantage of coalescing around the principles and values, which are central to sustainability thinking. However, they also carry forward the difficulty of reconciling ‘the traditional academic role of universities and the more instrumental role of preparing young people for the workplace and their role in society’ (Sterling, Maxey and Luna 2013).

Sustainability or integrated reporting?
For many years, sustainability reporting focused on environmental performance and mitigation

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Fig. 4: Doughnut Economics model
strategies to minimise negative environmental impact. More recently, the Global Reporting Initiative (GRI), underpinned by the guidance standard for Social Responsibility (ISO26000) has led the way in sustainability reporting. It is important to note that of the 7 core principles within ISO2600, environment is only a single part.

In the last decade, Integrated Reporting <IR>, emerging from the need for financial institutions to demonstrate value creation, has found its way into the public sector and within the last two years, Higher Education. With the 6 Capitals Model at its core, it uses the principle that stocks of capitals flow to create further value within the system, leading to a clearer understanding of the role of financial and natural capital in the development of manufactured and intellectual capital, through the use and development of social / relationship and human capital.

Fig. 5: An organisational view of the 6 Capitals

The 6 Capitals Model was introduced to the University in 2014, and three years later it has gained traction through the Improvements and Efficiencies Steering Group, with the 2016/17 VFM report for HEFCE including 3 case studies built around the model.

ESD in practice

Thus far, the Futures Initiative has focused on working with academic staff to build capacity for enriching curriculum with sustainability. This has largely been free-form, in the sense that it allows staff to work within their own context and approach, using stimuli and provocation from a variety of sources. This was helped significantly by the introduction of the HEA/QAA Guidance on ESD (2014), and more recently the Whole Earth? exhibition (2015), which demonstrated the need for a critical and challenging approach. Once again, the ESD guidance, whilst predating the Global Goals, illustrated the breadth of sustainability, combining:

- Environmental stewardship (ecological foundation) and
- global citizenship, social justice, ethics and well-being (social foundation)
- with a ‘futures thinking’ approach

The impact of this approach has in many ways has had a profound and long-lasting impact. One early beneficiary of Futures Initiative funding started out believing that:

"sustainability is all about what I say and what I do. It’s all green, green, green…"

Indicating an early stage in the understanding of sustainability. 18 months later, she revealed that a more values based transformation had taken place:

“Actually there is a duty upon us as educators to not think this is an add-on but this is actually intrinsic. This is intrinsic...In one sense it’s quite nuanced, but in another one it’s quite profound. It’s almost like a hue, almost like a shade difference.”

Dr Karen Shepherdson, School of Media, Art and Design
2. LEARNING AND TEACHING

UN SUSTAINABLE DEVELOPMENT GOALS

As a university, we have been engaged in a critical way with the SDGs through a variety of approaches.

The SDG Accord

Work within the sector to incorporate the SDGs into teaching and learning is becoming more widespread. In September 2017 the EAUC\(^1\) launched the SDG Accord, a global initiative to ensure the SDGs are embedded throughout across post-16 education. This Accord calls the world’s universities and colleges to embed the SGDs into our education, research, leadership, operations, administration and engagement activities. By the end of September CCCU had become one of the early signatories to the Accord, and thus we recognise:

- The indivisible and interconnected nature of the universal set of Goals – People, Prosperity, Planet, Partnership, Peace
- That, as educators, we have a responsibility to play a central and transformational role in attaining the Sustainable Development Goals by 2030.

NUS SDG Teach In

In late December the NUS announced that an SDG Teach In would take place during the week commencing 19\(^{th}\) February. CCSU publicised widely via the Golden Apple Awards network, along with face to face marketing, which resulted in 24 staff pledges. The Student Green Office designed a series of graphics themed around the 17 Goals, released via social media, as well as taking over 17 of the University display poster sites around campus with A1 posters of each of the goals. As a result Christ Church came 3\(^{rd}\) in the leader boards for staff pledges and number of students reached.

<table>
<thead>
<tr>
<th>Percentage of students reached</th>
</tr>
</thead>
<tbody>
<tr>
<td>1(^{st}) Royal Agricultural University</td>
</tr>
<tr>
<td>2(^{nd}) University of the West of England</td>
</tr>
<tr>
<td>3(^{rd}) Canterbury Christ Church University</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Number of teaching staff pledges</th>
</tr>
</thead>
<tbody>
<tr>
<td>1(^{st}) University of the West of England</td>
</tr>
<tr>
<td>2(^{nd}) Nottingham Trent</td>
</tr>
<tr>
<td>3(^{rd}) Canterbury Christ Church University</td>
</tr>
</tbody>
</table>

Table 1: SDG Teach-In leaders boards

As part of the SDG ‘Teach In’ Project 93, the CCSU and the Sustainability team collaborated to produce a set of workshop materials (presentation, workshop outline, activities) that could be used by any tutor, to run a 1 hour introductory workshop.

Feedback from the session run on 21\(^{st}\) February indicates that the session were enlightening, desired and needed.

Fig. 6: Student feedback to the SDG Teach-In

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\(^1\) Environmental Association of Universities and Colleges
SDG Blog
Since February, the Student Green office have also been involved in publicising the SDGs. Ellie Vasey (Journalism), made contact with and interviewed both staff within the university and professionals out in the local community for a series of blog posts attempting to contextualise each of the Sustainable Development Goals within Kent. These blog posts live weekly during term times through https://cccusustainability.wordpress.com/ and through the blog space available on the student pages of the CCCU website since early spring. These articles will be compiled into a ‘Student Response to the SDGs’ report for use in the following academic year.

Alongside Ellie’s articles, Martyna Nowak (Psychology and Early Childhood Studies), Publicity Officer, produced a series of SDG infographics unpacking particular issues related to each of the SDGs which were shared on our social media feeds throughout the Spring term.

Canterbury SDG Forum
The Canterbury SDG Forum is newly established to raise awareness of the UN Sustainable Development Goals to the wider Canterbury community. It comprises representatives from a number of local community-based groups who are part of a larger group called ‘Community Link’. Maz Hamilton and Stephen Scoffham from the Sustainability team are representing the University, and hosting the meetings.

‘Community Link’ meets on a regular basis with Canterbury MP, Rosie Duffield, to apprise her of local matters and concerns, along with SDG Forum activity. The Forum recently formulated a parliamentary question for Rosie Duffield to pose to the House of Commons, which was tabled to ask the Minister for the Cabinet Office

“what action the Government is taking, in preparing for the Voluntary National Review of progress on the Sustainable Development Goals, to secure the active involvement of local authorities and civil society organisations in the implementation of the SDGs.”

The following reply was received:

“The Government is committed to delivering the Sustainable Development Goals both at home and internationally. Achieving the SDGs will require effort by governments, civil society, local authorities, the private sector and many others. We are pleased to be able to present a Voluntary National Review at the UN in 2019 to showcase the UK’s work in delivering the SDGs and learn lessons from others. The Government will ensure that a wide range of partners and stakeholders, including civil society organisations and local authorities, have an opportunity to contribute to the review.”

The Forum is currently engaged in petitioning Canterbury City Council and Kent County Council. Christ Church will host a symposium in late November, involving Rosie Duffield MP and Council officers, entitled ‘Sustainability Global and Local: A Shared Challenge’, on how to get local action on the global goals and what they mean to the community.

Responsible Futures
The Responsible Futures process has asked valuable questions about the status of student attitudes to and skills for sustainability. Using existing national surveys, such as the NUS Sustainability Skills survey and the UKES, enhances understanding without adding significant extra burden.
NUS Sustainability Skills survey 2016-17

Over the last 8 years, the NUS (funded by the HEA until 2015) has run a national on-survey in order to investigate the experiences of teaching and learning on sustainable development in HE. Since 2016 this has also been distributed to students studying at Further Education institutions. Run in October 2017, over 12,000 respondents completed the survey which aimed to assess student:

- Attitudes to sustainable development issues;
- Definitions of sustainable development;
- Aspirations towards learning about sustainability and expectations of their place of study;
- Aspirations for sustainability in employment after their time in education.

University ‘Responsible Futures’ and ‘Green Impact’ Partnerships with Christ Church Students’ Union, drove a significantly more proactive approach to encouraging student participation in the research this year, resulting in CCCU achieving 7th position in the leader board for UK survey participation.

Headline results from the research conclude that:

- There is overwhelming agreement amongst 2016/17 respondents in HE that sustainable development is something that university and colleges should actively incorporate and promote;
- 58% agree that sustainable development is something they would like to learn about;
- Students are significantly more likely to say they would accept a salary sacrifice of £1,000 to work for a company with a strong environmental and social record;
- An understanding of the relationships between humans and nature continues to reflect both the lack of coverage in teaching and received low assessment of importance amongst HE respondents in comparison with other sustainability skills.

The demographics for the CCCU respondents indicate a good spread across 3 undergraduate years and all 4 faculties, as listed below. In future years, it is hoped that further enhancement of participation rates can be achieved through direct Faculty involvement. The Students’ Union have also provided a summary of headline results for CCCU responses.

- 30% 1st year
- 33% 2nd year
- 37% 3rd year
- 31% Faculty of Education
- 14% Faculty of Health & Wellbeing
- 32% Social & Applied Sciences
- 23% Arts & Humanities

The UK Engagement Survey 2017 was the first time that all non-final year students were asked to complete the UKES at CCCU, as a replacement for the USS, and an additional set of questions was included to gather information related to Social Responsibility. Further consideration of the UKES questions revealed considerable overlap with the CCCU Graduate Attributes (GAs)

<table>
<thead>
<tr>
<th>Engagement Measure</th>
<th>CCCU 2018</th>
<th>Sector 2018</th>
<th>Diff?</th>
<th>CCCU 2017</th>
<th>Change</th>
</tr>
</thead>
<tbody>
<tr>
<td>Respondents</td>
<td>3110</td>
<td>34652</td>
<td></td>
<td>3056</td>
<td></td>
</tr>
<tr>
<td>Response Rate (%)</td>
<td>36</td>
<td>-</td>
<td></td>
<td>34</td>
<td></td>
</tr>
<tr>
<td>Confidence Intervals</td>
<td>+/-1.2</td>
<td>-</td>
<td></td>
<td>+/-1.2</td>
<td></td>
</tr>
<tr>
<td>Social Responsibility</td>
<td>57</td>
<td>-</td>
<td></td>
<td>59</td>
<td></td>
</tr>
<tr>
<td>Consider how your learning relates to global issues</td>
<td>55</td>
<td>-</td>
<td>58</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Consider how your learning relates to local issues</td>
<td>58</td>
<td>-</td>
<td>60</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Explore issues relating to social justice</td>
<td>51</td>
<td>-</td>
<td>51</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Explore ethical issues</td>
<td>64</td>
<td>-</td>
<td>66</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Explore issues relating to individual and community wellbeing</td>
<td>63</td>
<td>-</td>
<td>65</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Explore environmental issues</td>
<td>42</td>
<td>-</td>
<td>43</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Consider how you might bring about positive change</td>
<td>67</td>
<td>-</td>
<td>68</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Table 2: UKES Questions related to Social Responsibility
CCCU specific measures on social responsibility asked how often their course or experience at university had prompted them to consider social, ethical and environmental issues. Table 2 shows there has been a statistically significant, 2% decline in performance on this thematic measure since 2017. This indicates that students have been slightly less inclined to feel that their experience at CCCU has encouraged them to think about social, ethical and environmental issues compared with 2017.

CCCU’s Graduate Attributes aim to articulate what a student, who engages with the opportunities available, will develop during their time at the University. They are in seven broad areas:

- Adaptable
- Digitally Literate
- Effective Communicator
- Informed
- Innovative
- Professional
- Self-aware

Each attribute is further defined through a series of statements that outline some of the typical abilities and behaviours a student would exhibit if they possessed that attribute. The Attributes are designed to be embedded into the University curriculum.

In 2017, 21 UKES questions were mapped onto the ‘Graduate Attributes’ framework. Table 3 indicates scores broadly similar to 2017, with the exception of overall scores on two graduate attributes, which have declined slightly since 2017. These are “Innovative,” which describes a capacity to challenge assumptions and apply critical and creative thinking, and “Professional,” which describes a capacity to possess integrity and approach complex problems by making reasoned and ethical decisions.

Table 3 also shows that scores on two UKES questions (Q2 & Q4), which partially represent the “Innovative” attribute, and scores on the “Explores ethical issues” UKES question, which partially represents the “Professional” attribute, have shown a statistically significant decline since 2017. Although the overall thematic area of “Informed” does not show a statistically significant decline, two of the individual questions do; these are “Being an informed and active citizen” and “Consider how your learning relates to local issues”.

Whilst it is only the second year of UKES use, with changes being small, the decline needs to be considered against our commitment to embed the UN SDGs within curriculum.
The Futures Initiative

Teaching Resources for Sustainability
A comprehensive set of teaching related resources, to support Education for Sustainable Development, are now available through the ‘Academic Support’ Blackboard. Organised by Faculty and School, this provides a wide range of papers, presentations, workshop materials and videos that can be used throughout the curriculum.

Fig. 8: Teaching Resources website

Futures Initiative Projects
The Futures Initiative continues to provide small amounts of resource for curriculum development and project work. Some particular examples include:

Enter the Culturarium. Project lead: JB Adrey, formerly Director of International, Arts and Humanities

Recognising that there are few, if any dedicated spaces or schemes within the University for non-UK and UK students to come together and develop cross-cultural cohesive bonds, the ‘Culturarium’ was conceived as a place where students and staff of all cultural, national and religious backgrounds could gather to learn about each other’s cultures in a festive or informal way. Launched by the Deputy VC on the evening of 8th February, a series of extracurricular (or informal curricular) activities such as film screenings, an international poetry night, a quiz, food tastings, a theatre performance and much more, took place over the week until the closing night on 15th February. A number of international students helped to organise the events and publicity, and all events were well attended and well received by students.

Augmented Reality Sustainability Trail.
Project lead: Jo Samuel, Lecturer, School of Media, Art and Design

As part of her PhD exploring the effectiveness of different interactive experiences on raising awareness of sustainability-related issues, Jo created a trail around the campus using posters and augmented reality to highlight relevant areas, such as the allotment plots, insect houses etc. Upon download of a free app called Zappar, participants used their mobile devices to unlock hidden content on the posters. Each participant was given a guide for the trail, which included a question relating to each video. Feedback was collected at the end of the trail and all participants were entered into a prize draw to win high street vouchers. Almost 100 students engaged in the trail, which was made available to coincide with Personal Development Week for three weeks during January.

As a follow-up to this project, a curriculum based academic partnership is now in place. During the animation module, students will be asked to create an animated character to illustrate the UN SDGs.

Project 93. Project Lead: Zulfi Ali, Senior Lecturer, School Childhood and Education Sciences.

The idea for Project 93 was first shared in 2016 through a discussion paper that was circulated to all staff and students with an invitation to participate in a pilot project to create a tradition of rigorous dialogue, discussion and debate, based on critical thinking on social issues. A programme of
activities began in late September 2017, with core aims to:

- Develop new and support existing innovative and creative ideas for creating spaces for high quality and interactive academic activities and events outside the formal curriculum
- Act as a catalyst in developing synergies amongst various players for more collaborative and partnership-based activities and events
- Inspire and encourage greater and more active engagement and activism from students and staff

Activities fall into 6 sub-projects:

- Discussion & Debates Gatherings
- Podcasts
- International Film
- Clubs & Societies
- Communications Hub
- Social, Cultural and other Events

The overall response from staff and students has been extremely encouraging, although numbers of people in attendance has varied from event to event. The most promising aspect of the pilot project has been the fact that it demonstrates that regular, well attended, cross disciplinary events can be held on campus and can generate a lot of interest.

A new approach has been piloted whereby tutors bring their students to attend events within existing seminar times, signalling that these events enrich the learning experience and are very much part of a wider education. Consequently events have been very well attended with considerable cross disciplinary dialogue about key social and environmental issues.

Based on the work of the first academic year, plans are now under way to develop a full programme for the next academic year, which will enhance coordination and collaboration for AY 2018-19. The programme of events held in AY 2017-18 (appendix 1) and in a draft programme for AY 2018-19 (appendix 2).

**Sustainability Stories.** Project Lead: Dr Nicola Kemp, ESD Lead & Senior Lecturer, School Childhood and Education Sciences.

In response to SMT concern about wider awareness of the University’s sustainability work, this project aims to use story telling as a way of communicating the story of CCCU sustainability work over the past 10 years. The project involves carrying out semi-structured interviews with a range of staff who have engaged with sustainability during this time frame.

The aim is to capture a diverse range of experience and start with the project lead interviewing a long-standing advocate of sustainability at CCCU. The interviewee will then select someone they consider to be important to the CCCU sustainability story. This interview will be conducted by the previous interviewee using the interview schedule. This process will be repeated on a relay basis with the interviewee becoming the interviewer each time. It is hoped that this approach will provide a different and more personal flavour, in contrast to the normal ‘case study’ approach.

Between June and September 2018 seven interviews were conducted with colleagues involved in sustainability at CCCU. The first three were transcribed, and then passed to a creative consultant who developed fictionalised responses to each narrative. The responses included traditional tales, poems and adjectival stories, and were provided in both written and spoken form. A reflective commentary was also written by the consultant to explore the different possibilities generated by the three narratives. This piloting revealed a number of significant strengths of the approach.
The importance of storytelling as a reflective process for those working in sustainability in HE; to understand more about their own ecological identity and the way in which they can use this to support students and colleagues.

The ways in which stories can convey powerful sustainability messages in an affective rather than cognitive manner; people seem to make emotional connections with the story being told.

A ‘network’ of connections is emerging between individual accounts because of the approach used; there is a sense of a collective story that is being created through the process.

The research team are currently in the process of responding to the pilot phase and creating a brief for the next phase. This may include using the spoken interviews rather than written transcription as a starting point for the creative responses.
3. RESEARCH AND ENTERPRISE

FACULTY OF ARTS & HUMANITIES

On 8th November 2017, the University hosted an international symposium on Sustainability and Humanities: linking social values, theology and spirituality towards sustainability.

Professor Walter Leal, Chair of Environment and Technology at Manchester Metropolitan University, and Dr Adriana Consorte-McCrea, Education for Sustainable Futures Lead CCCU, organised and chaired the event with the support of the Revd Dr Jeremy Law, Dean of Chapel, and Kath Abiker, Faculty Director of Learning and Teaching in the Faculty of Arts and Humanities.

The symposium featured speakers from international universities presenting on research, literature reviews, curriculum innovation and projects, and explored themes around faith, church, the sacred, spirituality, culture, science-fiction, values, compassion, wellbeing and global citizenship in relation to a sustainable future.

Papers that document the wealth of experiences presented at the symposium have been published as part of the Springer ‘World Sustainability Series’, co-edited by Dr Adriana Consorte-McCrea.

A follow-up symposium will be hosted in November 2019 focusing on ‘Sense of Place’ and ‘Cross-disciplinary Participatory Approaches to Sustainability’.

FACULTY OF EDUCATION

Doughnut Education: What might it look like?

On 9th November 2017 the Faculty of Education Scholarship Day used Kate Raworth’s “Doughnut Economics” model that defines a new goal for 21st century economics, as a reflection on the parallel world of education. Authors such as Biesta and Alexander vociferously challenge the assumption that test results, in a narrow range of subject areas, can stand as a proxy for the whole of a child’s education. What sits behind this reification of simple metrics (whether GDP or PISA) is the discredited (since 2008) but still dominant ideology of neoliberalism, arguably the main driving force behind policy change in the UK since Thatcher. Using this link between the worlds of economics and education as a springboard, the conference asked the question: what would a “doughnut education” look like?

More than 100 participants experienced contributions that raised questions and offered insights from early years to Higher Education, from mainstream, informal and alternative settings. As well as drawing in
colleagues from across the wider university, external partner organisations were invited to participate and attend the event.

**What does critical pedagogy have to say to us in 2018?**

On 1st February 2018 the Faculty of Education held its second scholarship day of the year, which provided a platform for theoretical discussions and a space for deep reflection about the current educational climate. Professor Gert Biesta’s keynote address and the subsequent workshops raised critical questions about the dominant discourses that frame the taken-for-granted beliefs and cultural norms underpinning our practices and behaviours. Critical Pedagogy is at the heart of our work.

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**Faculty of Social and Applied Sciences**

**Seminars on the ‘hoof’**

‘Walking Seminars’, a joint initiative between the SRN and the Geography Research Group, was organised to run though semester two (2018) and focused on Canterbury as a complex heritage site. The interdisciplinary project drew on expertise from several schools;

- Michael Bintley and Sonia Overall ‘O what we ben! Discovering Post-Apocalyptic Landscapes (19 April)
- Kate McLean ‘Scents of Spring or Smells of Summer: Smellwalk Canterbury 2018’ (3 May)
- Jane Lovell ‘Hipstorical Canterbury: A real-fake, frontstage tour’ (17 May).

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**Faculty of Health & Wellbeing**

**Futures Summit**

After many years of ad hoc collaboration with the Bay Trust (based at the Pines Calyx in St Margaret’s at Cliffe) the University signed a MoU for research and collaboration, that was launched by an ambitious Futures Summit in June 2018.

Developed in partnership with the SRN, England Centre for Practice Development, the Bay Trust, and the Carbon Free Group, the Summit 2018 showcased cutting edge design, architecture and social innovation projects that challenge the status quo of existing public sector practices. Leaders in regeneration addressed the summit to outline their current design priorities and challenges for urban and rural communities sharing their ideas about how to innovate for the future. Ten out of a possible 15 students recruited through a University wide call attended the event, and helped to shape the recommendations for future curriculum innovation in the resulting action plan.

The summit provided an opportunity for participants to co-create solutions in a design task workshop to address particular urban and rural social issues, so that the best creative contributions from the event, in particular from students, could be immediately fed into applicable local area projects. The Futures Initiative funded both the places and the prizes for innovative design solutions.

Sixty participants attended across the two days with good support from Dover District Council and a range of creative speakers in the field, who all welcomed our new collaborative approach and made commitments beyond the summit to support continued work. Student employability and
engagement, enterprise and sustainability colleagues attended from the University, with academic representation from the Faculties for Health and Wellbeing, and Social and Applied Sciences.

The summit demonstrated a real appetite for radical change across the University, local and national organisations and statutory services, demonstrating how a living lab approach is a really creative way of hooking in interest from a broader range of stakeholders often put off by academic jargon. Students were really keen to see a student-led curriculum developed that enables creative learning that draws on digital technologies, business, creative industries and the commercial sector.

However, the approach comes with strengths and challenges.

Strengths:

- There is great passion, drive and determination to change current practice from a broad range of sectors offering a huge range of knowledge, expertise, skills and networks to draw upon.
- It involves the knowledge and skills of experienced researchers capable of working in embedded ways to capture data in the moment; perfect for social innovation.
- There is a real commitment across the University to take this approach forward through an emerging community of practice.

Challenges:

- A non-hierarchical inclusive approach is necessary;
- Finding funding will be a challenge unless the University commits some enterprise funds to get this off the ground as a pump priming initiative;
- Entrenched ways of working across Faculties may be a barrier;
- The living lab model is creative and enterprising and does not fit easily alongside traditional curriculum models, as it requires a high level of skilled facilitation.
Sustainability Research Network

The role of the SRN is to improve the external presentation of sustainability research and facilitate interdisciplinary networking across the institution and externally. It involves eleven research centres/groups from across all four faculties.

A Futures Forum - Community and Sustainability: Engaging with REF and TEF, was held in Nov. 2017. Speakers included Karen Shepherdson on photography and community, Amelia Hatfield, BREXIT and engaging with Kent's business communities, Nicola Kemp, 'From Whole Earth to Whole Kent', and Adriana Consorte-McCrea on the partnership with the Bay Trust/Pine Calyx.

Global Primer

A pilot GLOBAL PRIMER event, led by Prof. Peter Vujakovic (chair of the SRN and co-chair of the Professoriate), was delivered as part of Personal Development Week. The event was based around the question, "how do we meet the challenges of the 21st century?" It consisted of debates and workshops exploring major questions facing society; e.g. food security, the nature of education, and key sustainability goals. The event draws on research and professional expertise from across the university. The event was supported by the Futures Initiative, and organised by the University’s Sustainability Research Network (SRN) in association with the University’s Professoriate.

Five of the sixteen staff directly involved were members of the Professoriate. The event had been broadly advertised, as part of Personal Development Week with over fifty students registering. Unfortunately, only 17 attended on the day including two members of the Student Green Office (who provided help on the day; including running the award-winning carbon footprint interactive game, ‘How Bad are Bananas’). Feedback from staff and students was very positive, and the format proved to be engaging and well received.

On-going local contribution

Members of the SRN contributed to two important sustainability conferences/workshops in Kent in 2018. First, Smart Eco-city Canterbury 2050, held University of Kent, 14th May 2018. This included talks on the university’s Futures Initiative (Stephen Scoffham) and a decade of biodiversity on campus (Peter Vujakovic). Second, the 'Futures Summit, Design(ing) Innovations for Sustainable Community Wellbeing’, held at the Pines Calyx, Kent, 18-19 June 2018.

Members of the wider sustainability team continue to present the University’s innovative work at conferences and symposia, publish in academic journals, and either author or contribute to edited collections. A summary is provided in appendix 3.

Partnerships for research

The partnership with the Oaten Hill and South Canterbury Association (OHSCA) is continuing to develop, fostered through the SRN. The main aim of the partnership is to run open lectures that focus on sustainability issues concerning the local population, as well as students and staff at CCCU (e.g. environmental issues, health and wellbeing, local economy). It is envisaged the partnership will also provide opportunities for student and staff engagement with the local community, and generate research projects of benefit to both communities. A second annual lecture was held 'Healthwatch Kent – A Patient & Public View on Changes to Health & Social Care’, by Steve Inett CEO of Healthwatch Kent, on 24 May 2018. Healthwatch Kent is the local consumer champion for people who use health and social care services.
4. STUDENT AND STAFF ENGAGEMENT

STUDENT GREEN OFFICE

The Student Green Office (SGO) has grown from three to five staff members (4hrs/week) comprising three Events Co-ordinators, one Communications Officer and one Publicity Officer. Events and campaigns this year have focused primarily around food, Fairtrade, and the UN Sustainable Development Goals.

Cooking Goes Green

Events Co-ordinator Claire Nicholson created the ‘Cooking Goes Green’ cookbook with guest recipes from other students. This was targeted at new students learning to cook for the first time; helping them shop effectively and affordably. Hard copies were put into every university managed student kitchen, and electronic versions were made available for free, via digital download on Kindle during Freshers’ Week, and via the sustainability website thereafter. A second edition was published in September 2018 with more vegetarian and vegan offerings and a guest collaboration with the Gastro Hub.

Across semesters 1 & 2, events included Fairtrade chocolate tasting, ‘brain food’ pop-up stands during revision periods and collaboration with the annual Events Management students’ Spring Festival, and the Student Eats funded project ‘Gastro-Hub’ run by Business student, Charmaine Jacobs.

Reusable bottle campaign materials produced by PR & Media students, including maps, information and free water bottles, were distributed to students to encourage them to cut back on plastic wastage and make use of the refill points across campus. Whilst being sensitive to concerns around alcohol they have also been offering tastings and information about the St Thomas Ale (2017). This was branded and launched by another team of PR & Media students on summer placement, and helps to tell the unique story of the Canterbury Campus heritage.

Events Co-ordinator Chloe Bale worked until Easter on assignment to support the delivery of the first Global Primer event, attracting around 40 attendees to workshops across the day. Following this Chloe also provided liaison for our collaboration with the annual Spring Festival, run by Events Management students during their second year.

To Support the ‘Cooking Goes Green’ cookbook, Events Coordinator Billie Redwood produced a trifold meal preparation guide, along with a series of recipe cards designed for batch cooking healthy recipes on a budget, which have been made available to students at food events and at Freshers’ Fair.

Heritage Green Hop Ale

Ongoing collaboration with the Media and Communications programme has resulted in three second year students undertaking the rebranding of the green hop heritage ale. Partnership with the Canterbury Brewers continues, with the Chaplaincy team requesting a St Gregory focus in order to align with the 100th anniversary of the signing of the armistice.
Partnership

Partnership with the Students’ Union has thrived during 2017-18, with a whole series of events taking place at which the new carbon footprint game ‘How Bad are Bananas’ was also used:

- The Lounge, 35 attendees
- Open Day, 300 prospective students
- Barista & Baker SGO event, 15 attendees
- Medway ‘Union on Tour’
- ‘Global Primer’, 17 student attendees
- Student led Learning & Teaching conference, 40 students
- International Food & Culture Fayre 80 attendees and 14 different countries
- Spring Festival, including pop-up ‘Gastro Hub’ using gleaned vegetables
- Community street cleans

The SGO and Students’ Union collaboration continues, with a drive to create an active Eco-Students society to help build on Green Impact success, and provide wider experience of sustainability related issues. Ellie Vasey, Martyna Nowak and Chloe Bale graduated in 2018; Claire Nicholson and Billie Redwood will return as SGO staff for 2018-19, with an additional Events Coordinator to be recruited.

Staff Health and Wellbeing

Throughout the year Organisational and Staff Development have offered a number of workshops to support colleagues in their personal development and wellbeing; including Personal Resilience and Mindfulness. Colleagues also continued to have access to Occupational Health support through our external partner OH Works, and though our Employee Assistance and Counselling programme delivered through external partners CiC.

In September 2017, the University launched the Big White Wall tool to all students and staff. This is an online support and recovery service for those who are feeling low, stressed or anxious. It is fully anonymous, and includes a safe community of members moderated by trained professionals, self-assessment tools, and guided support courses for specific issues.

The University is continuing to progress its Health and Safety 5-year plan, which includes an objective to celebrate and enhance wellbeing arrangements for staff and their awareness of these, as well as to heighten compliance to H&S legal requirements related to Wellbeing. Progress and achievements are monitored by the H&S Group.

Wellbeing Week

The year’s staff wellbeing activity culminated in a Staff Wellbeing Week in June, a week-long reflection on wellbeing at work and at home, enabling staff to take opportunities to connect with their teams and colleagues across the University by exploring ideas, trying out new activities and challenging their current thinking. It aimed to celebrate and
showcase how staff invest in their personal wellbeing through displays, workshops and online resources to enable all staff to engage with the concept of wellbeing, and explore what it means to them and their teams.

Co-ordinated by the Organisational and Staff Development team it was a truly collaborative project with input from stakeholders across the University community and beyond. Over 30 events were hosted across the week, engaging several hundred colleagues, and 49 entries to the Wellbeing photo competition.

Christ Church Sport ran a variety of sessions including; Yoga taster sessions, ‘Every step counts’ (sharing the health benefits of gentle walking), an opportunity to join the University running club ‘Christ Church Runners’, lunchtime table tennis competitions and outdoor games such as giant jenga and ten-pin bowling, as well as inviting a local croquet club to use Coleridge Gardens.

Fig. 13: Yoga trial session at the Priory

Lively Twitter conversations were hosted and a wealth of resources and blogs were made available on the Wellbeing Week website https://cccu.canterbury.ac.uk/wellbeing/wellbeing-week/wellbeing-week.aspx. The web and social media presence ensured that colleagues who were not able to participate in events were still included. Some activities were more successful than others, however feedback has been overwhelmingly positive. A full evaluation is currently underway to enable impact to be assessed and decisions made about future activity.

**Time to Change**

An important activity this year has been the stakeholder events and input into the development of a new Mental Health and Wellbeing Framework for the University. Led by the Director of Student Experience, Moira Helm, and supported by the OSD team, a huge amount of information and personal perspectives on both student and staff experience were gathered at sessions held in Canterbury, Medway and Tunbridge Wells.

Fig. 14: Time to Change signing

World Mental Health Day 2017 (October 10th) was an opportunity for the University, working with the Students’ Union, to demonstrate how it values the mental wellbeing of all its students and staff and to promote a positive environment that supports good mental health for all. Activities held that day included drop-in sessions, information and guidance, walk, workshop and panel debate. Individual students and staff were encouraged to make a pledge to the Time for Change campaign which aims to reduce stigma around mental health, and the University also committed to signing the pledge. John Moss (SMT Sponsor) and Krum Tashev (SU President) formally signed the Time to Change pledge at the Golden Apple Awards event in May 2018.
CHRIST CHURCH SPORT

Couch to 5k

Introduced as a new programme in January 2018, the Couch to 5k programme aimed to increase physical activity levels for complete beginners, as well as improving the participant’s health and wellbeing. Over 30 colleagues signed up to take part in the first programme and more than 20 completed it. A survey of participants at the end of the programme gave exciting insights into its success. All of those surveyed reported improvements in their fitness and their general mood; 80% reported reduced stress levels and 90% found improvements in their social wellbeing.

Fig. 15: The first ‘Couch to 5k’ cohort

A Senior Lecturer in the School of Media Art and Design, had previously participated in the self-led Couch to 5k initiative but preferred the University’s programme. Sarah explained:

“The main differences have been the sense of community and support the group offered. Both physically and mentally I feel in a much better place.”

Furthermore, a Sustainability Coordinator within the university, said:

“It has been brilliant and I’m so pleased to have done this! The gradual progression ratio of walking to running, week on week, was just right and the level of support and encouragement from the Sports staff was great and kept us going.”

Already into the third programme there have been 76 participants, with many undergoing life changing experiences. Such as one recent Couch to 5k participant:

“I have thoroughly enjoyed the Couch to 5k experience, indeed I’d go so far as to say that completing the programme has been one of the greatest achievements of my life and I believe it has been a life-changing experience.” Ian Williams, Senior Web Developer in Marketing and Communications.

Many of our runners could not have imagined running 5k at the start of the programme and many have gone on to running 10k and completing regular events.

Vice-Chancellors Challenge

For the second year, on Friday 29th June, staff from across the University came together to play a range of fun sports and activities in the Vice-Chancellor’s Challenge. Developed by Christ Church Sport in association with the Vice-Chancellor, it provides an opportunity for colleagues to take part in a range of fun activities, meet colleagues from other areas of the University and to work as a team, outside of the office environment.

Activities included sitting volleyball, Ultimate Frisbee, walking netball and cricket, with the finale offering a return of school sports day favourites, including the egg-and-spoon race and an obstacle course. Colleagues were also able to take advantage of Christ Church Sport’s new sports massage service. With around 135 colleagues from across the University taking part, the challengers saw some fierce competition and admirable sportsmanship.

Fig. 16: The SMT VC Challenge team
The Students’ Union took the top honours, storming to victory over last year’s winners: the Physical Education and Physical Activity team from School of Childhood and Education Sciences. The Finance Department completed the top three and the Faculty of Health and Wellbeing’s team, ‘The Wellbeing Wanderers’, were awarded the ‘wooden spoon’. Improving vastly on last year’s performance, the Senior Management Team reached 12th position.

Jo Burns, Student Fees Manager, said: “We didn’t know what to expect from the VC’s Challenge as it was the first year for Finance, but I must say it was absolutely fantastic and well organised. The atmosphere was buzzing, there was great team spirit with friendly competitiveness and it was so nice to spend an enjoyable afternoon with other colleagues. Long may it continue!”

Christ Church Runners
The newly formed University running club started in May 2018. The club was developed and designed as an intervention beyond the 10 week Couch to 5k programme, a supported running experience, aimed to address the propensity for relapse. This informal running group, which is supported by and operates simultaneously with the Couch to 5k programmes, has created a sustainable vehicle for exercise adherence based on our understanding of the model for behaviour change.

Ongoing engagement in a weekly running club, regular 5k events and interaction and communications through our Facebook group to provide motivation and support has proved extremely successful. There are currently 43 signed up members and it continues to expand.

Stress Less
Christ Church Sport are instrumental in bringing physical activity to students during exam periods, helping to manage stress levels and reduce anxiety with our Move More initiative. Our efforts have included access to ten-pin bowling, giant jenga, exercise bikes, walking routes and support from our digital wellbeing platform, the wellbeing zone.

Social Sport
The initial PlaySport programme was funded by Sport England, through the University Sport Activation Fund. The programme has continued successfully during 2017-18 as ‘social sport’; self-funded by Christ Church Sport and reaching approximately 1800 participants.

Social sport provides turn up and play, pressure free activities. Weekly drop in sessions are available to all members of the university community, with all abilities welcome and no prior experience of a sport necessary. The sessions are delivered in a relaxed environment where the focus is on fun, which has proved a great way to get active with friends and meet new people.

Wellbeing Zone
The Wellbeing Zone is a free online tool and mobile app that provides the latest health and wellness advice. It is a digital wellbeing initiative designed to capture users’ habits and behaviours, creating a holistic view of their overall health and wellbeing. Using factors such as eating habits, stress levels, weight and physical activity, the tool allows a user to identify problem areas and maintain positive behaviour habits. There are now more than 7,500 registered users, with 2,127 new members joining in 2017-18.

Yoga Courses
Christ Church Sport ran 6-week on-campus yoga courses throughout June to July 2018. Yoga is a great way to refocus the mind and body, since it blends the grounding force of meditative breathing with the wild rush of endorphins that comes with a good workout.
The 2 courses were held in Augustine Library and St Martins Priory, with attendance of 23 staff members.

**Get Up & Go!**
Get Up & Go is a new library based exercise incentive, which sees the placement of both exercise equipment in the form of static bikes and yoga mats, alongside useful information to help guide a user through a workout. The bikes were placed as a direct result of student requests to see more exercise equipment following ‘Stressless’ periods, and aims to help break up periods of inactivity to aid in stress relief and promote physical activity and wellbeing.

![Fig. 17: Get Up & Go, Augustine House](image)

**Fit for Life**
The University Sport Centre hosts Fitness Programme ‘Fit for Life’; a fitness programme available to anyone over 50 hoping to improve their overall fitness level, in a social environment with like-minded individuals. The classes include a combination of low impact and aerobic exercise. A regular attendee of the Fit for Life classes, Daphne Reeve, commented:

“I enjoy coming here and I am sure it has helped me to be fit and healthy.”

**Workplace Challenge**
Workplace Challenge is a national programme that aims to engage workplaces in sport and physical activity. The more activity a user does, the more points they get, and points make prizes. An easy to use app is provided that enables users to enjoy some friendly rivalry with colleagues and other workplaces.
5. AWARDS AND ACCREDITATIONS

GREEN GOWN AWARDS

National and International recognition

In November 2017 the University won its first award at the annual Green Gown Awards ceremony, and went forward to compete for and win the International Green Gown Award in May 2018. Achieving both national and international awards for ‘Continuous Improvement: Institutional Change’ in the same year is a huge achievement for the University, which recognises significant and ongoing improvement in four key areas: leadership and governance; estates and operations; learning, teaching and research; and partnership and engagement.

![Image of Green Gown Awards ceremony](image)

Fig. 18: International Green Gown ceremony

With strong competition from Aston, Goldsmiths, London Met, Edinburgh and Leicester, the University managed to demonstrate a very broad and creative approach, which was clearly articulated in the judges’ comments. The judges said:

“No stone is left unturned at Canterbury in this broad focussed application reflecting the diversity of sustainability. The persistent approach taken has resulted in evidence of embedded strategic ownership and organisational culture change, which we celebrate. The cross-organisational and very creative work being done to engage and partner students, researchers and the local community was particularly inspiring. Well done!”

PHYSICAL ACTIVITY EXCELLENCE AWARD

Christ Church Sport were awarded the Physical Activity Excellence Award at a recent British University and College Sport conference in Bristol. The University were one of only ten universities to receive the honour, which aims to reward institutions who demonstrate a commitment towards tackling inactivity and provide a robust provision for both physical activity and health and wellbeing. The award was presented as a collaboration between British University & Colleges Sport (BUCS) and UK Active and was assessed by Leisure Net.

The Award aims to create a sector standard for higher education institutions, demonstrating good practice for increasing physical activity engagement across a student and staff population. The award also aims to create an exemplar for sharing best practise across the sector and drive a culture of collaborative working at an institutional and national level.

Director of Sport, Paul Carney, commented: “We are thrilled to receive this award, with a great deal of appreciation going to our staff, who make delivering such a high quality service possible. Our aim within the University has always been to build participants’ confidence so that they are motivated to maintain a healthy lifestyle; it’s now fantastic to see recognition from BUCS and UK Active for our approach to this challenge.”

STANDARDS AND LEAGUE TABLES

ISO14001 and EcoCampus external Audit

“Ensuring on-going continual improvement”

The University continues an annual internal sustainability audit cycle, which was presented to the EMS Management Review Committee on 22nd March 2018. The external surveillance audit took place during the week of 16th April, and included below is the executive summary from the audit report:
“This report addresses the first surveillance audit of the University, following its successful transition to ISO14001:2015 in 2017.

Management Review is carried out by the Sustainability Strategic Management Group, and appears comprehensive and effective. Despite the strain on resources within the sustainability team, internal audit has been given and continues to be given priority.

There is strong commitment from students and faculty to make their own decisions as to how sustainability should be introduced to the teaching and learning environment. This was largely evidenced through detailed discussions with students and academics.

It was very clear during the tour of the Canterbury campus, that the grounds team is passionate about Bio-Diversity and Paul Sims has very clear ideas and plans for creating garden places that promote Bio-diversity while being pleasant places for students and Academic to relax and work.

It is still the relatively early stages of using the Energy Monitoring Technology (EMT), but it is already helping identify areas of high energy use and demonstration of effectiveness of switch off and improvement. Use of EMT in Augustine House has helped identify areas of high use, reduction initiatives and subsequent energy saving of 29%.

The University has a highly structured approach to identifying its aspects, objectives and governance, and uses the LiFE index\(^2\) to assess maturity (progress), and set targets.

The system continues to operate well, but resources have been reduced. Future resourcing needs to be secured and maintained to enable the system to continue to operate effectively and deliver compliance and improvements.”

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2 Life Index is now been incorporated into the EAUC/AUDE Sustainability Leadership Scorecard.

People & Planet University League
The consistent good work across the University was also recognised by an excellent result in the annual People & Planet University League, in which the University achieved a solid joint 21st place within the 1st Class category.

**FIRST CLASS UNIVERSITIES**

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<th>Rank</th>
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<td>University of East Anglia</td>
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Fig. 19: University League table (top section)

RHS BLOOM

South and South East In Bloom

Whilst the Canterbury BID took a year out from submitting a collective ‘Canterbury In Bloom’ entry to SSEIB, all individual parties were encouraged to submit. So, for the third continuous year the North Holmes Campus was entered the ‘Business Landscape’ category, achieving a Gold award for the second year running. By increasing its score by 6 points the Grounds and Gardens Team deserve significant credit, given the particularly dry spring months, and the ongoing disruption due to building works on site.
6. IMPACT

**Sustainability Leadership Scorecard**

In response to the widespread sector boycott of the 2014 People & Planet Green League, AUDE³ commissioned ARUP to develop the Green Scorecard. This on-line tool, draws data from the HESA EMR⁴ and allows HEIs to set targets and report against estates based metrics, which link to carbon reduction. These include:

- Energy & Emissions
- Transport
- Water
- Waste
- Adaptation
- Procurement
- Biodiversity & Landscape
- Management

During 2018 the EAUC received grant funding from HEFCE to build on the Green Scorecard, incorporating all Priority areas from the LiFE Index, to create the Sustainability Leadership Scorecard (SLS). A small project team, comprising AUDE ARUP and EAUC staff, along with EAUC and AUDE representatives (Peter Rands and Stephen Wells respectively) have driven the project through a very tight development phase, with SLS being launched at the AUDE conference at the University of Kent on 10th April 2018.

The LiFE Index has been embedded into sustainability governance since 2013, to provide underpinning support for continual improvement. All LiFE Frameworks will be transferred to SLS during the coming year, with some adjustments to the Priority Areas to fill gaps in the original LiFE Index, and to ensure consistency.

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³ Association of University Directors of Estates

⁴ Higher Education Statistics Agency Estates Management Record
with the CCCU sustainability team to seek advice on how to engage and influence this aspect of the project.

Their impact on this wide-ranging international project has been significant from the very first meeting in Tbilisi in 2016. Stephen Scoffham and his work on the ‘Exploring Sustainability’ website had a significant impact on this element of the course. Yocheved Yorkovsky, the leader of the CURE sustainability curriculum describes Stephen as being,

“a very significant member in the international team that wrote the course: civic education for sustainability” adding that “His extensive knowledge, professionalism and excellent interpersonal skills contributed to the great quality of the course.”

The Civic Education for Sustainability curriculum developed for use across Georgia, Israel and the EU is heavily populated with CCCU sustainability website links, works by Stephen Scoffham and Alan Bainbridge, and pedagogical ideas developed as part of the Whole Earth Project. During the CURE consortium visit to CCCU in the summer of 2017, Stephen Scoffham had a pivotal influence on the materials being developed, along with Nicola Kemp, who was involved in the planning of this week long event.

In April 2018 CCCU hosted a small group from the CURE project for a week of workshops and seminars, at which both Stephen and Nicola led seminars on their understanding and approach.
7. UNIVERSITY OPERATIONS

A SUSTAINABLE ESTATE

Building 1: Arts Building

The new Creative Arts building, which will consolidate all arts programmes on to the Canterbury Campus, will be available to students and staff for semester 2 of the 2018-19 A/Y. This will include the majority of learning and teaching spaces. On-going challenges during the building programme have been mitigated extensively by working closely with the contractor, Coombs.

Principles of boundary planting have been agreed between the contractor and the local residents’ association, which will maintain and enhance biodiversity and a green corridor along the rear of the building.

Fig. 20: Digital model of the Arts building

Building 2: Science, Engineering, Technology and Health

The back lands of the former prison, along with former student accommodation (DLT), Estates Building and the Chaplaincy have been cleared in readiness for the construction of Building 2. More asbestos was identified in the ground, which has all been removed in order to create a contaminant-free site for the long term.

BREEAM5 ‘Very Good’ is targeted, as the minimum standard required by the City Council as a planning condition. However, whilst ‘Excellent’ or ‘Outstanding’ may be regarded as aspirational but financially unachievable; the energy, carbon and occupant wellbeing aspects provide opportunities to minimise long term costs and environmental impact, as well as ensuring ‘well-building’ characteristics are maintained.

Fig. 21: Digital model of Building 2

Stodmarsh and Polo Farm

In order to improve sports facilities and reduce the distance of travel for students for training and matches, options are being explored to expand our Polo farm collaboration with the purchase of additional land. This would allow for sports pitches and an all-weather surface to be provided that could be would be funded by the sale of the Stodmarsh land, which would provide all sports facilities in a single location and significantly improve student experience, as well as reducing travel costs, time and carbon!

Canterbury Estate consolidation

New Dover Road, Lady Wootton’s Green and Hall Place will all be sold in 2019 following the opening of the Arts Building and the Faculty of Education Restructure.

Buildings within the old prison walls are being considered for refurbishment to provide accommodation for Information Services (Gate House) and Finance/HR (Visitor Centre), which will release some space on the North Holmes Road Campus and allow for the early release of Rochester House.

Consolidation of IT Services into a single location will also release space in Laud for teaching, which, along with work undertaken over the summer to convert some of the Bookshop and LG45 into student informal learning space, will

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5 Building Research Establishment Environmental Assessment Method
make for more functional and collocated space for students.

The Prison buildings themselves are also being reconsidered for use as student accommodation and a Visitor Centre (heritage use). The collocation of good quality student accommodation with a heritage feel on the NHR campus will allow for enhanced conference flexibility, increasing opportunity for income generation, along with reducing the impact of student uptake of accommodation.

On-going estate review
There is clear recognition that the aspirations of the Estate Master Plan need to be reviewed within the context of continued financial pressures and evolving university priorities.

Room usage on the NHR campus is particularly low and there will be a change in the strategy for the timetabling and booking of rooms. Whilst the University has had the technical capability to undertake electronic timetabling, it has continued with the practice of operating a programme and module room booking system, which results in on-going inefficiencies. Room timetabling will be enabled to support increased room utilisation, which will prepare the way for planned estate consolidation.

ENERGY MANAGEMENT
Augustine House: Electrical sub-metering pilot
Augustine House is the University’s second biggest consumer of gas and electricity behind the North Holmes Road Campus. The building has electrical sub meters installed but gathering this data has proved difficult and time consuming. Energy Metering Technology (EMT) have been capturing data from the sub-meters through the installation of small Automatic Meter Readers (AMR) and analysing the data.

Historical analysis of the half-hourly electrical data shows an off-peak baseline of 100 kW with the peak load of 250 kW. By using out of hours surveys, Building Management System optimisation (changing schedules and timings), improving plant maintenance and upgrading equipment, electrical consumption has been significantly reduced. Re-analysis of the half-hourly data showed a dramatic reduction in both peak and off-peak loads to 170 kW and 40 kW respectively, with no negative effect on comfort levels. When combined with Gas, the total energy reduction over the past year equates to 29%.

Fig. 22: 24hr electrical trace prior to changes

Fig. 23: 24 electrical trace after changes

Building Sub Metering
Over the last 12 months further electrical sub metering has been installed across the North Holmes Road campus, allowing consumption to be recorded at Building level, rather than just at the incoming main transformer. All sub meters are connected to Energy Metering Technology Ltd (EMT) DYNAMAT data analysis software. DYNAMAT turns raw energy consumption data from meter readings into meaningful management information where cost and carbon emissions can be monitored and savings can be realised. Through analysing the data we can establish minimum baseloads for each building and identify abnormal usage,
particularly outside core business hours, meaning energy consumption can be targeted and driven down.

Building 1’s extensive range of meters will be added to the DYNAMAT software towards the end of 2018, allowing us to have an in-depth understanding on how utilities are used within the new building. Likewise Building 2 will also similarly be extensively sub metered as required by current Building Regulations.

Just like gas and electricity water is an expensive commodity and is easier to waste more than gas and electricity, often going undetected for considerable periods of time. Therefore sub metering of water distribution systems will also be implemented over the next 12 months targeting high usage buildings such as the large student residential accommodation blocks.

Estates have recently started to implement open protocol BMS and access control systems utilising the Delta software system and enteliWEB head end. A review of the existing Estates BMS systems is currently being undertaken with a view to having a common portal for all existing BMS systems through enteliWEB. This will allow an enhanced oversight of the University’s boilers, chillers and air handling plant, which are often the greatest consumers of utilities within a building. By utilising Delta’s Coppertree analytical software package we will be able to analysis plant performance alongside utility consumption, with the goal of continuing to reduce energy consumption.

Estates Staffing for Energy Management

In August 2017 the Estates Department Health, Safety and Environmental Officer left the University and was followed in May 2018 by the departure of University’s Estates Officer (Energy). Their departure in relation to Energy management and ISO14001 compliance, has left a void in the Estates professional team. A review of the positions concluded that the role of Estates Officer (Energy) would not be recruited to in its existing form, due to the diminished need for a dedicated resource in this area. Energy saving is now embedded within the Estates team and is second nature rather than an item that needs to be considered separately.

The appointment of British Independent Utilities (BiU), discussed in further detail below, has resulted in the outsourcing of energy procurement, bill validation and CRC. The greater emphasis moving forward is the analytical data analysis from utility sub-meters and compliance with the ISO14001 OCP’s. These tasks are included in the newly created roles of Health, Safety and Environmental Risk Manager and a supporting technician post. Despite numerous recruitment rounds it has not been possible to appoint to either post, and this will have significant impact on the University’s ISO14001 compliance and should be considered as a significant risk at this point in time.

Salix Funding

During the last 12 months, the University has again been successful with SALIX loan funding for LED lighting upgrades, with the main project being the upgrading of the lighting in the main sports hall at the Canterbury Sports Centre. This has been well received by the building users, as it is now possible to set lighting scenes for individual sporting activities.

Future funding projects are being investigated for potential further SALIX loans, with battery storage becoming more popular as battery technology improves. Potential loans from SALIX will need to be considered as part of the University’s overall borrowing strategy in support of the masterplan.

Energy Tariffs

In September 2017 following a review of the University’s energy procurement it was decided to move away from fixed term contracts for gas and electricity (normally 12 or 24 months duration) to a flexible tariff. With energy supply costs at a 10-year high, moving to a complex risk managed flexible strategy for energy purchasing allows the University to be part of a balanced customer portfolio for its gas & electricity procurement. Through an OJEU compliant framework agreement, BiU were selected on a three year contract to act as the University’s energy procurement specialists, working to
obtain best prices on gas and electricity. This was highlighted for October 2018 where BiU had traded 100% of the University’s electrical load requirements earlier in the year, protecting against recent price rises and saving the University £20/MWh.

Under the University’s previous electricity supply contracts we had been on a “blue” tariff (Energy generated from renewables and nuclear), with the BiU contract we are on a standard “brown” tariff with electricity generated from a number of sources, as shown below;

![Energy Mix](Fig. 24: The University Energy Mix through BiU)

Should the University wish to return to a “green” tariff, the premium ranges between £0.35p/MWh to £0.55p/MWh depending on what fuel mix is required (Wind / Solar being more expensive). Based on the University’s consumption of circa 12,000,000 kWh per annum, the premium would be in the range of £4,200 to £6,600 per annum. Consideration should be given to how the choice of tariff potentially effects the University’s “green” credentials in reports such as People and Planet’s University league.

The University has successfully completed a revenue recovery audit through BiU, which has seen in excess of £100k returned to the University by previous energy suppliers for billing errors. BiU undertake monthly bill validations to eliminate future billing errors.

**Water Tariffs**

Following the deregulation of the English water supply market in April 2017, the University is now able to choose its water supplier, rather than rely on its regional supplier monopoly. Working with BiU it is proposed to tender the University’s water supply contract during the next 12 months. Whilst this may only generate small savings in the region of 3-5% it will allow the University to choose a single supplier for all sites, where currently there are two in the southeast, along with a selecting a supplier that values customer service. The University’s regional water supplier company are currently transferring our business to companies that have been formed following deregulation of the water market, which is placing an additional administration burden on the Facilities administration team, due to these companies poor customer service. Tendering the University’s water supply contract will allow control to regained, similarly to gas and electricity.

**Legislation Update**

The carbon reduction commitment (CRC) is being abolished in 2019, and replaced with the Streamlined Energy and Carbon Reporting (SECR), which is the first step by the government to simplify the carbon tax landscape. The cost to the University for CRC is approximately £106K/yr. The criteria for SECR is expected to be similar to the Energy Savings Opportunity Scheme (ESOS) and it is yet to be confirmed whether University will have to comply. CCCU are not part of ESOS.

**SCOPE 1 & 2 CARBON EMISSIONS**

Since 2009/10 carbon emissions have been reported annually against the carbon reduction target to 2016/17. Last year the carbon management plan was extended to 2020, with a view to developing a new plan through to 2030. However, severe resource issues in Estates and Facilities, combined with the departure of the Energy Manager earlier this summer, have meant there is insufficient resource to produce and analyse the energy consumption data.
**Scope 3 Carbon Emissions**

**Waste & Recycling**

The overall waste tonnage has gone down from last year, thus continuing the trend of waste reduction across the University.

<table>
<thead>
<tr>
<th>Tonnage</th>
<th>13/14</th>
<th>14/15</th>
<th>15/16</th>
<th>16/17</th>
<th>17/18</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Waste stream</strong></td>
<td>13/14</td>
<td>14/15</td>
<td>15/16</td>
<td>16/17</td>
<td>17/18</td>
</tr>
<tr>
<td>General non-hazardous waste &amp; skips</td>
<td>525.6</td>
<td>464.70</td>
<td>430.73</td>
<td>523.33</td>
<td>388.95</td>
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<tr>
<td>Dry Mixed Recycling</td>
<td>291.9</td>
<td>145.70</td>
<td>209.45</td>
<td>189.95</td>
<td>166.6</td>
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<tr>
<td>Glass</td>
<td>167.1</td>
<td>185.71</td>
<td>172.86</td>
<td>19.15</td>
<td>14.87</td>
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<tr>
<td>Food waste</td>
<td>26.5</td>
<td>49.29</td>
<td>69.68</td>
<td>24.11</td>
<td>28.14</td>
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<tr>
<td>General WEEE</td>
<td>28.91</td>
<td>20.37</td>
<td>7.25</td>
<td>4.87</td>
<td>1.2</td>
</tr>
<tr>
<td>IT Recycling (Since March 2016)</td>
<td>4.32</td>
<td>17.02</td>
<td>9.4</td>
<td></td>
<td></td>
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<tr>
<td>Personal items – British Heart Foundation</td>
<td>3.30</td>
<td>2.11</td>
<td>4.66</td>
<td>1.4</td>
<td>3.4</td>
</tr>
<tr>
<td>Other misc. items</td>
<td>4.6</td>
<td>11.17</td>
<td>8.39</td>
<td>0.5</td>
<td></td>
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<tr>
<td><strong>Total waste</strong></td>
<td>1054.11</td>
<td>888.42</td>
<td>915</td>
<td>793.75</td>
<td>632.2</td>
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<tr>
<td><strong>Total recycling</strong></td>
<td>528.51</td>
<td>423.72</td>
<td>484.27</td>
<td>270.42</td>
<td>243.25</td>
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<tr>
<td><strong>Recycling rate as a percentage of total</strong></td>
<td>50%</td>
<td>47.5%</td>
<td>52%</td>
<td>34%</td>
<td>38.5%</td>
</tr>
</tbody>
</table>

Table 4: Waste stream tonnages since 2013/14

Much of the reduction can be attributed to the take-away cup levy. However, it is also worth noting that the continued education within the Housekeeping and Accommodation teams for new students has also been successful and this will continue in the new academic year. The vinyl wrapping of bins in the food court and clearer labelling of recycling receptacles, along with further information throughout the University has also had a positive impact.

**Recycling rates**

75% of the general waste and skips that are sent to ‘Energy from Waste’ (EfW), including mattresses and WEEE⁶, is now sorted and recycled at the Countrystyle depot. Overall, the recycled component amounts to 243.25 tonnes, which gives an overall recycling percentage of 38.47%. This is due in part to areas such as Parham Road Student Village being in close proximity to accommodation managed by other providers. Thus leading to large amounts of contaminated waste, effectively negating the good work of our students and staff. In the coming year, changes to the number and locations of the accommodation on shared sites, this is expected to improve.

Following the change in May of 2018 to the new General Data Protection Regulations (GDPR), the amount of confidential waste generated has increased.

**Increased waste collection efficiency**

On-going work with Countrystyle through robust monitoring to ensure efficiency of operation, has resulted in an increased in the number of recycling Euro bins and a reduced number of lifts. This has reduced the waste carbon footprint and the number of lorries on the road in the city and on our sites, resulting in a 9.7% reduction of vehicular movements between 16/17 and 17/18.

**Cooking oil**

1,850 litres of waste cooking oil has been removed for producing bio-diesel, comprising 1,370 litres from the North Holmes Road Campus and 480 litres from the Augustine House Atrium Café kitchens.

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⁶ Waste Electrical and Electronic Equipment
Demolition waste
Demolition of buildings on the former prison site, along with Davidson, Lang and Temple (DLT), Estates and Chaplaincy buildings, resulted in considerable waste materials. All the brick work has been recycled right down to the mortar being put back to sand. All the interior items from DLT have been recycled (metal bed frames, mattresses etc.) and a large volume of the fixtures and furnishings have been reused within the University’s accommodation and offices. This includes beds, desks, CCTV and access control systems, and recently fitted LED lighting. Concrete and other materials have all been crushed on site for use as road base or piling mat, with all finer material being shipped offsite for further segregation and sale.

Fig. 24: Materials crushing on former prison site

The closure of the Broadstairs Campus has also resulted in the release of a large amount of reusable resource that is being distributed on a priority basis to the following locations respectively: Kent Innovation Centre (Broadstairs), Arts Building, Laud refurbishment, and Augustine House. For example, much of the kitchen equipment has been redeployed to the Atrium Café, such as the salad bar, fridge unit, fryer and preparation tables. All furniture is being reused to replace worn items in other locations.

Coffee cup and disposables levy
In January 2017 a 10p levy for takeaway coffee cups and food containers was introduced, in order to reduce waste and help to support a change in mind-set towards disposable items. A one-off supply of reusable cups was provided to all staff in order to soften the implementation, which was very well received. Within a short period there was an 80% reduction in the use of disposable cups in the SCR on the NHR site.

In order to ensure a similar impact through the student population, all 1st year intake students have been provided with a reusable cup during the registration and induction process. 5000 branded cups have been exchanged for a voucher provided in welcome bags, and continue to be available through the Bookshop and campus receptions.

For the period January 2017 to Jan 2018, there has been a 61% reduction in the purchase of disposable cups across the University, which amounts to a saving of £23,000 (cost to the customer). However, there have been limited reductions in the use of disposable food containers, which are still being used as alternatives to china within the Food Court. Therefore, in line with current pressure to reduce single use plastics, and to come in to line with pricing for disposables by commercial providers, the cup levy has been increased to 25p for all disposables. The University catering service has also committed to eliminating single use plastics throughout the operation by the end of 2019.

TRAVEL & TRANSPORT
Parking
As in the previous years, changes in the Estate due to building works have put increasing pressure on car parking in Canterbury. As such, the Car Parking Strategy and Policy have been reviewed and minor amendments made to tighten up the criteria for parking permit applications for the coming year.

There are now five electric vehicle-charging points installed across the estate, each with a two-vehicle capacity. These are sited at the Medway Campus, Salomon’s Centre in Tunbridge wells, Hall Place and two on the Canterbury Campus.
Considerable work undertaken by the Customer Services and Travel Manager has resulted in reduced fares for Students and Staff through the Stagecoach bus provider. The university is still engaged with KCC (Kent County Council) for the 16+ bus travel scheme that allows some of our first year students to take advantage of a heavily discounted scheme. Further investigation into sourcing discounts for Staff and Students with the Rail operators continue to be unsuccessful, as these are only offered at national level.

**Fleet vehicles**

The University fleet vehicles replaced in 2015 are now three years old and one vehicle has already been removed from the fleet as a result of being written off due to an accident. The requirement has been absorbed into the operation of the remaining fleet of 9 vehicles.

**Pool cars**

The Enterprise pool car scheme had grown to three vehicles and usage monitored in order to gauge effectiveness. Despite a reasonable level of use, the scheme is currently not operating as cost effectively, and one vehicle has been returned. The scheme will continue to be marketed as a good alternative to personal car usage. Increased pressures on parking spaces on site in Canterbury may provide sufficient impetus to reduce the number of people driving in to Canterbury, and increase utilisation of the pool car scheme.

**‘Park and Ride’**

The City Park and Ride scheme has been upgraded to ANPR (Automatic Number Plate Recognition), which means that the University can no longer offer additional subsidy since individuals purchase at source. Staff and students can still receive a similar discount as the one currently offered by the University generated by frequency of use of P&R sites. The University continues to provide shuttle bus services around the city, along with the creation of the free Park & Ride route from Polo Farm to The Old Sessions House, which continues to be well utilised and is a useful addition for staff.

**Cycling facilities**

Further investments in cycling and associated facilities has continued throughout the University, such as individual high security bike lockers and CCTV behind TOSH. Canterbury City Council has also introduced a Park and Pedal scheme at the Wincheap Park and Ride, where free secure bike storage is provided for a modest key deposit. Unfortunately, there is already a waiting list for this service. The Canterbury City Council’s Brompton Bike scheme continues to operate from Canterbury West train station, costing just £2.50 for 24hr hire.

Estates & Facilities continue to work closely with other departments to ensure that there is a suitable and sufficient scheme in place for those with accessibility needs, and that mobility and health issues are addressed.
SUSTAINABLE PROCUREMENT

Procurement Engagement Assessment
In 2017-18 the Procurement Team embedded a new process for departments to request support for their procurement project. Before the team commit any resource, a Procurement Engagement Assessment (PEA) has to be completed to ensure they have a clear picture of the whole project. As part of this assessment, Procurement ask stakeholders to identify the sustainability impacts of the contract they are seeking to award. Specifically, the following are considered:

- Energy consumption
- Waste production
- Emissions
- Labour rights
- Transport and travel
- Use of consumables
- Potential reputational damage

Using this information, questions can be included in the tender documents to determine how best to mitigate these sustainability impacts.

Edge network switches
IT awarded a new contract for the purchase of edge network switches. The new switches save approximately 60W in energy consumption per switch compared to the existing model. Over 400 switches this will deliver a total energy cost saving of more than £20,000 per year, once fully replaced, which equates to a reduction of around 60 tonnes of carbon dioxide. The new solution will also allow devices such a telephones and wireless access points to be powered off out of hours; resulting in a further energy saving of around £7,500 per year once fully deployed.

IT recycling
IT have identified a new supplier to manage Waste Electrical and Electronic Equipment (WEEE). Old IT equipment used to be collected and processed by the University’s PC supplier, however, a new company, Computer Disposals Limited (CDL) has been identified. In previous years, the annual rebate from the waste manager would be c. £2,000-£3,000. Under the new contract these are expected to increase to £25,000 - £35,000.

CDL currently remarkets approximately 70% of all WEEE collected. The remaining 30% of WEEE is recycled in the UK, with all raw materials harvested for reuse. CDL has always guaranteed 0% landfill and does not export any non-working WEEE.

Plans for improving procurement
Sustainability considerations are insufficiently embedded in all procurement activity. The Procurement Team are fully engaged, but departments frequently decide what they want to buy before approaching the Procurement Team or insufficient time has been allowed to run a comprehensive supplier selection process. This results in limited scope for sustainability aspects to be included within a tender process.

Consequently, the Procurement Team are updating all of their standard documentation to ensure sustainability is included at all stages, from determining the specification for goods or services, through supplier selection and contract award. Specifically, Procurement intend to ensure the sustainability impacts identified during the Procurement Engagement Assessment, are considered throughout the project and are formally reported upon.

Paper procurement
The University spends nearly £50,000 on paper every year, with the majority of this being used in our copiers, MFDs and printers. As part of a review into cost effectiveness, alternative options were put forward by our existing supplier, and by our supplier of specialist paper.

Until recently, our paper was manufactured from 100% recycled content, which requires a de-inking and pulping process in a facility in France followed by transportation to a paper factory in Germany. This not only significantly increases the carbon footprint of the paper, but also does not guard against unsustainably produced paper being used in the recycled pulp. Essentially, recycling paper is a good thing to do,
but it is important to ensure the provenance of the paper supply chain.

The outcome from the review is that Woodland Trust Office Paper offers the most sustainable solution, along with the greatest saving; reducing procurement costs by 12%.

The Woodland Trust paper production process operates as follows:

- Raw material comes from the woodland thinning process, and from saw mills within 100km radius of the production mill; thus minimising transportation related carbon dioxide emissions and cost.
- The pulp and paper mill are integrated, which eliminates transport between the two.
- The integrated mill is entirely self-sufficient in heat, using waste products from the production process, and produces 40% of its total electricity needs.
- Additional energy is purchased from climate neutral sources.
- Surplus heat from the production process is piped to the nearby district heating network, which heats over 3,000 homes and civic buildings.

**Biodiversity, Heritage, Food and Growing**

**Biodiversity**

The Bioversity Initiative continues to be a key focus in our celebration of CCCU's unique 'sense of place' associated with our position within the Canterbury UNESCO World Heritage Site. The Edible Campus and Beer, Bread and Honey initiatives continue to be important despite the loss of key member of staff.

As part of the celebration of the role of John Tradescant the Elder in transforming the St Augustine Abbey site during the seventeenth century, a conference 'From Monastic to Tradescant Gardens' was held on 7th October 2017. Organised by the Kent Centre for History and Heritage (CCCU), it was supported by several members of the Biodiversity Working Group, including provision of two experts of a Q&A panel.

An ivy Bioblitz was organised for 18th October 2017 to demonstrate the importance of ivy (Hedera helix) as a late flowering plant providing nectar and pollen to a wide range of pollinator insects, including hoverflies, bees, and wasps. The session was open to all students and staff; the talk was given but unfortunately, due to poor weather the follow-up visit to sites across the World Heritage Site was postponed and will be organised for October 2018.

A presentation reflecting on a range of biodiversity activities in the formal and informal curriculum and the management of the CCCU estate was given at the Sustainability in Higher Education Conference, hosted by PedRIO, University of Plymouth, 10-11th January 2018 (Vujakovic, P. Gothic Horror? Busting myths and tackling contradictions in the sustainable management of a university estate).

Another presentation on management of biodiversity at CCCU was given in May 2018 (Vujakovic, P. 'Environmental stewardship as past, present and future thinking: A decade of biodiversity on campus', Smart Eco-city Canterbury 2050, University of Kent, 14th May 2018).

**Resourcing issues for innovative work**

Unfortunately, work on Edible Campus, and projects such as Beer, Bread & Honey, are largely in abeyance due to the long-term sickness, and subsequent departure of Alex Metcalfe in January 2018. Recruitment to this post has been restricted to a 1-year half-time post, which will have a long-term impact on these activities, as well as putting the on-going success of the ISO14001 accredited EMS at risk.
8. CONCLUSIONS

Significant on-going work is evident and successful on a variety of fronts, with external recognition for this now being achieved. The partnership approach, both internally and externally is bearing fruit and will continue to form the basis for our work. The SDGs and Responsible Futures are providing more focus, whilst maintaining opportunities for criticality. The Students’ Union Green Impact partnership with the SGO is also flourishing, and the outlook going forward with the restructured sabbatical roles is promising.

A renewed focus on energy performance and consumption has reaped significant improvements at Augustine House, and provides a blueprint for further implementation across the estate. Unfortunately, resource issues have hit the Sustainability team as well as Estates and Facilities, which have put the EMS at high risk, and have severely limited all campus based activities relating to Edible Campus.

Dr Peter Rands
Director of Sustainability Development
### APPENDICES

#### APPENDIX 1: PROJECT 93: PROGRAMME FOR 2017/18

<table>
<thead>
<tr>
<th>Title</th>
<th>Date</th>
<th>Details</th>
</tr>
</thead>
</table>
| Attending, Achieving and Attaining: “What is the point of university?” | 29-Sep   | Speaker 1: Jeremy Law  
Speaker 2: Alan Bainbridge                                       |
| Schooling the World: The White Man’s Last Burden          | 06-Oct   | Dir: Carol Black                                                        |
| HOME                                                       | 17-Oct   | Dir: Yaan Arthus-Bertrand                                              |
| SAMSARA                                                    | 14-Nov   | Dir: Ron Fricke                                                         |
| A Celebration of Universal Children’s Day                 | 20-Nov   | Speaker 1: Professor Hugh Cunningham  
Speaker 2: Professor Kathy Goouch                              |
| The Lunchbox                                              | 08-Feb   | Dir: Ritesh Batra                                                      |
| The Past                                                   | 09-Feb   | Dir: Asghar Farhidi                                                   |
| A Celebration of Poetry from Around the World             | 12-Feb   | Roots Project & Various Students and Staff                             |
| BARAKA                                                     | 15-Feb   | Dir: Ron Fricke                                                        |
| Miss Representation                                        | 08-Mar   | Dir: Jennifer Newsom                                                   |
| “Changes in the role of Maasai women: from colonialism to climate adaptation” | 08-Mar  | Speaker: Joy Stephens                                                  |
| Made in Dagenham                                          | 08-Mar   | Dir: Nigel Cole                                                        |
| The Good Life                                             | 14-Mar   | Speaker: Jeremy Law                                                    |
| One Team                                                  | 19-Mar   | Dir: Ian Clough                                                        |
| SDG Teach-In                                              | Feb/Mar  | Ongoing                                                                |
| Podcasts recording                                        | Oct/Mar  | Ongoing                                                                |
## APPENDIX 2: PROJECT 93: DRAFT PROGRAMME FOR 2018/19

### Semester 1

<table>
<thead>
<tr>
<th>No.</th>
<th>Date</th>
<th>Content</th>
<th>Slot</th>
<th>Partners</th>
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</thead>
<tbody>
<tr>
<td>1</td>
<td>2 Oct</td>
<td><strong>Open Seminar: Provocation</strong>  &lt;br&gt; <em>What is higher education about?</em>  &lt;br&gt; Jeremy Law and Alan Bainbridge</td>
<td>OHE</td>
<td>Education Studies, SU</td>
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<tr>
<td>2</td>
<td>5 Oct</td>
<td>Screening of <strong>HUMAN Vol 1</strong></td>
<td>HLT</td>
<td>Education Studies</td>
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<td>Screening of <strong>‘SCHOOLING THE WORLD’</strong></td>
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<td>4</td>
<td>10 Oct</td>
<td><strong>Wednesday Film Screening: ‘I AM NOT YOUR NEGRO’</strong>  &lt;br&gt; Dir: Raoul Peck</td>
<td>YATW</td>
<td>SU, BME Staff Network</td>
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<td>5</td>
<td>17 Oct</td>
<td><strong>Wednesday Film Screening: ‘BARAKA’</strong>  &lt;br&gt; Dir: Ron Fricke</td>
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<td>6</td>
<td>31 Oct</td>
<td><strong>Wednesday Film Screening: THE SPIRIT OF 1945</strong>  &lt;br&gt; Dir: Ken Loach</td>
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<tr>
<td>7</td>
<td>2 Nov</td>
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<tr>
<td>8</td>
<td>13 Nov</td>
<td><strong>Open Lecture by Jeremy Law: On Certainty</strong></td>
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<td>9</td>
<td>14 Nov</td>
<td><strong>Wednesday film screening: HYPERNORMALISATION</strong>  &lt;br&gt; Dir: Adam Curtis</td>
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<td>10</td>
<td>16 Nov</td>
<td><strong>Lecture by Jens Lerche (SOAS): Ground Down by Growth. Tribe, Caste, Class and Inequality in India</strong></td>
<td>HLT</td>
<td>SU, Engaging Sociology</td>
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<tr>
<td>11</td>
<td>20 Nov</td>
<td><strong>Universal Children’s Day Celebration</strong></td>
<td>YATW</td>
<td>SU, SCES</td>
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<td>12</td>
<td>20 Nov</td>
<td><strong>Discussion &amp; screening of film on housing</strong></td>
<td>Ian Jasper</td>
<td>SU</td>
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<td>13</td>
<td>21 Nov</td>
<td><strong>Wednesday Film Screening: PLANETARY</strong></td>
<td>SU</td>
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<tr>
<td>14</td>
<td>28 Nov</td>
<td><strong>Wednesday Film Screening: LGBT Theme</strong></td>
<td>SU</td>
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<td>15</td>
<td>5 Dec</td>
<td><strong>Wednesday Film Screening: HOME</strong>  &lt;br&gt; Dir: Yaan Arthus Bertrand</td>
<td>SU</td>
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<td>16</td>
<td>10 Dec</td>
<td><strong>Human Rights Day Celebrations</strong></td>
<td>YATW, SUS</td>
<td>SU</td>
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### Semester 2

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<tr>
<td>17</td>
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<td><strong>HUMAN Vol 2 screening</strong></td>
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<td><strong>SUFFRAGETTES Screening</strong></td>
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<td><strong>Open lecture:</strong></td>
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<td>20</td>
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<td><strong>Poverty Inc. Screening</strong></td>
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<td><strong>Jeremy Law: The Good Life</strong></td>
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<td>22</td>
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<td><strong>Gurminder Bhambra: Decolonising the University</strong></td>
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<td>23</td>
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<td><strong>Melissa Benn: On Comprehensive Education</strong></td>
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<tr>
<td>24</td>
<td>8 March</td>
<td><strong>International Women’s Day</strong></td>
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APPENDIX 3: SUSTAINABILITY TEAM: PRESENTATIONS AND PUBLICATIONS

Conferences
The following were all presentation to the Sustainability in Higher Education Conference, University of Plymouth, 10th January 2018. This was the 3rd in the series originating at Plymouth in January 2015, and run at CCCU in July 2016.

- Bainbridge, A. ‘Letting go’ of education: re-imagining education as sustaining and sustainable. Sustainability in Higher Education Conference, University of Plymouth, 10th January 2018
- Kemp, N. & Bolshaw, P. Early Childhood Education for Sustainability: Transformation through Collaboration. Sustainability in Higher Education Conference, University of Plymouth, 10th January 2018
- Linehan, A. The Roots Project: Student led initiative to promote cohesion and a stronger sense of identity within a School of Language Studies and Applied Linguistics. Sustainability in Higher Education Conference, University of Plymouth, 10th January 2018
- Rands, P. Successful leadership actions for sustainability. Sustainability in Higher Education Conference, University of Plymouth, 10th January 2018
- Scoffham, S. & Consorte-McCrea, A. Whole Earth? Creating a space to stop, pause and reflect. Sustainability in Higher Education Conference, University of Plymouth, 10th January 2018
- Vujakovic, P. Gothic Horror? Busting myths and tackling contradictions in the sustainable management of a university estate. Sustainability in Higher Education Conference, University of Plymouth, 10th January 2018
- Vujakovic, P. Environmental stewardship as past, present and future thinking: A decade of biodiversity on campus, Smart Eco-city Canterbury 2050, University of Kent, 14th May 2018.
- Abiker, K. & Linehan, A. The Roots Project: Student sustainability, well being and global citizenship, AdvanceHE, annual conference, 3-5th July 2018

Publications
A variety of journal and book publications have been achieved or are in train, as follows:


- Scoffham, S. Opening the Door to the SDGs in *Geographical Association News* pp 8-9.
Appendix 4: References

Gutierrez, M., McFarland, W. and Fonua, L. (2014), Zero poverty...think again: Impact of climate change on development efforts, ODI (Overseas Development Institute)


