Interdisciplinary Centre for Computer Music Research

Quantum computer, courtesy of Rigetti Computing.
Photo by Justin Fantl

UNIVERSITY OF PLYMOUTH

ICCMR
Concert Series 2020

The University of Plymouth's Interdisciplinary Centre for Computer Music Research (ICCMR) develops research combining music, science and technology. Our research expertise ranges from musicology and composition, to biomedical applications of music technology and development of Artificial Intelligence for musical creativity.

ICCMR IS A WORLDWIDE PIONEER OF RESEARCH IN QUANTUM COMPUTING FOR MUSIC.

ICCMR is developing neuro-technology to control musical systems using brain signals, and harnessing living organisms to build novel bio-electronic devices and building bespoke radio broadcasting systems for healthcare in collaboration with partners such as BBC Radio Devon and the NHS.

ICCMR is pleased to announce a new concert series. The new series builds on the success of our former annual Peninsula Arts Contemporary Music Festival, which culminated in 2019 with BBC Singer's premiere of ICCMR's own opera, Lampedusa.

The ICCMR Concert Series' mission is to showcase the outcomes of the University's research and promote local talent, engaging and challenging audiences through inspiring concerts.

As well as celebrating the work of members of staff, students and musicians, the series will also feature music of historical significance, which are rarely programmed in conventional classical music concerts.

Dr Núria Bonet, ICCMR Concert Series Coordinator
Prof Eduardo R. Miranda, Head of ICCMR

Back to Music: Charlotte Storey and Núria Bonet

Saxophone: Charlotte Storey
Adapted keyboard: Chris Powell
Band: Harriet Drury, Sophie Corwood, William McCormack, James Uzzell, Eleisha Milverton
Composer: Dr Núria Bonet

Date and venue to be announced.
Please refer to the website:
cmr.soc.plymouth.ac.uk/index.php/event/

Admissions free. Booking advisable.

Charlotte Storey is a saxophonist whose career was cut short by an accident as she lost the use of her right shoulder. Researchers at the University Plymouth have been working to build technology and write new pieces to prepare her comeback concert. Charlotte and the research from the Interdisciplinary Centre for Computer Music Research (ICCMR) have also been working with disabled amateur musicians to return to music playing. This unmissable event is free; there will be charity collections and a Q&A after the concert.

Composer Portrait: Eduardo R. Miranda

Pianist: Lauryna Sableviciute

Date and venue to be announced.
Please refer to the website:
cmr.soc.plymouth.ac.uk/index.php/event/

Admissions free. Booking advisable.

Acclaimed pianist Lauryna Sablevicute plays Miranda's iconic compositions for piano and electronics, including ***Mozart Reloaded***, commissioned by BBC Concert Orchestra for BBC Radio 3's "The Genius of Mozart" season in 2010. ***Grain Streams***, was composed in 1997 with pioneering Artificial Intelligence software. Inspired by Dostoevsky's novella *Letters from the Underworld*, Miranda's ***Sounds from Underground*** was composed at Banff Centre, Canada, for pianist Luciane Cardassi.

Lauryna Sableviciute studied at the Vilnius Conservatoire in Lithuania. She is currently based in Manchester and teaches piano at Royal Northern College of Music. Lauryna is actively involved in introducing audiences to new works by composers from around the world, including premieres from Ennio Morricone (Italy), Yuri Kasparov (Russia), Eduardo Miranda (Brazil) and Graciela Paraskevaidís (Uruguay). Besides her deep interest in Contemporary repertoire she continues to perform works from the Classical and Romantic periods. She is an accompanist for BBC Philharmonic Orchestra. And in 2016 Lauryna was appointed as an accompanist for the string summer school "Play On" with Nicola Benedetti at the Royal Conservatoire of Scotland (RCS).

Artificial Synaesthesia for String Quartet: Richard M. Abrahams

4Play String Quartet

Date and venue to be announced.
Please refer to the website:
cmr.soc.plymouth.ac.uk/index.php/event/

Admissions free. Booking advisable.

This concert showcases Richard's post-graduate research at ICCMR. The programme includes a series of contemporary classical compositions for string quartet. The pieces explore different approaches to composition considering colour and sound as different dialects of brain information rather than completely separate languages. The composer developed a piece of software that enables the computer to emulate the effect of synaesthesia. Richard will be available after the concert to demonstrate his software and answer questions.

Pioneers: Computer Music and Quantum Computing

Bass clarinet: Sarah Watts
Ada Lovelace String Quartet

Date and venue to be announced.
Please refer to the website:
cmr.soc.plymouth.ac.uk/index.php/event/

Admissions free. Booking advisable.

The art of computer music has been progressing in tandem with computer science since the invention of the computer. People hardly ever realize that musicians started experimenting with computers far before the emergence of the vast majority of scientific, industrial and commercial computing applications in existence today. The Ada Lovelace String Quartet will perform the ***Illiac Suite*** for string quartet, composed in 1957 by Lejaren Hiller and Leonard Isaacson. This is widely acknowledged as the first piece of music composed by a computer. Computers play a pivotal part in the music industry today. And emerging new quantum computing technology will most certainly have an impact in the way in which we create and distribute music in time to come. The University of Plymouth's ICCMR is pioneering research into applications of quantum computing in music. Sarah Watts performs Eduardo Miranda's ***Zeno***, a pioneering piece for bass clarinet and electronic sounds produced by a quantum computer interactively.

The performances will be preceded by a talk by Professor Eduardo Miranda on the historical significance of the ***Illiac Suite*** for string quartet and an introduction to ***Zeno***.

Pioneers: Composers Desktop Project and Archer Endrich

Cinema for the ear: electroacoustic music
Curated by Dr Archer Endrich

Date and venue to be announced.
Please refer to the website:
cmr.soc.plymouth.ac.uk/index.php/event/

Admissions free. Booking advisable.

The Composers Desktop Project, or CDP, is an international cooperative network that has been developing music software since 1986. CDP is one of the most comprehensive software tools for sound transformations and composition ever developed. Their pioneering tools allow composers to manipulate recorded sound to write music and are now open-source. As one of the pioneers involved in the CDP, Archer presents a programme of pieces written with these tools. He will also give the world premiere of his latest piece ***Van der Donck's Vision***. This will be an exciting opportunity to revisit some of the best music coming out of the Composers Desktop Project in an immersive loudspeaker environment.

Born in the USA, Archer is a composer of both acoustic and electroacoustic music. He migrated to the UK in 1971 and completed a Doctorate in Music Composition at the University of York. He has been Coordinator and administrator of CDP since its inception in 1987. Archer is a Visiting Research Fellow at ICCMR where he conducts research into electroacoustic music composition and sound design and contributes teaching.

Programme:
Crosstalk (6'48") – Mike Vaughan
No. 5 (5'41") – Gustav Ciamaga
Sax (6'15") – Dale Perkins
No. 6 (3'57") – Gustav Ciamaga
Inja (10'16") – Adam Stanovic
No. 8 (5'52") – Gustav Ciamaga
Van der Donck's Vision (15') – Archer Endrich

Pioneers: Alternative Electroacoustic Pioneers

Cinema for the ear: electroacoustic music
Curated by Dr Núria Bonet

Date and venue to be announced.
Please refer to the website:
cmr.soc.plymouth.ac.uk/index.php/event/

Admissions free. Booking advisable.

Electroacoustic and computer music rapidly developed after WWII, often through musically curious sound engineers at universities and radio stations. They repurposed their equipment to produce exciting new sound and create new styles of music. The mainstream history of electroacoustic and computer music often mentions France, Germany and the United States as epicentres of this development, also spreading to countries such as the United Kingdom and Canada. However, alternative histories exist as pioneers on other continents carried out their own experimentations. This concert will explore Asian, African and South American pieces written in the 1950's and 1960's, which revisit the commonly accepted history of the birth of electroacoustic and computer music. This exciting concert will showcase fantastic music and the extraordinary stories behind their creation.

The Interdisciplinary Centre for Computer Music Research (ICCMR) is affiliated to the School of Humanities and Performing Arts and has connections with the Faculty of Science and Engineering and the Centre for Health Technology. The impact of ICCMR's research has been recognised as world-leading by the Research Excellence Framework, which assesses the quality of research in UK higher education institutions.

We actively publish our research outcomes in learned journals and conferences in the fields of music, digital arts, computing, engineering, psychology, neurosciences and medicine. ICCMR offers a number of unprecedented opportunities for collaborative and interdisciplinary research with theatre and performance, electronic engineering and medicine.

We run the BSc (Hons) Computing, Audio and Music Technology, and post-graduate research programmes at both Masters and PhD levels. We welcome research proposals for student placements, post-doctorate projects and visiting researchers.

Characterised by its lively cultural scene, great quality of life and tolerance, the city of Plymouth welcomes students from diverse backgrounds from all over the world. If you are interested in pursuing your post-graduate studies and research ambition with ICCMR, please do not hesitate to contact us at: **eduardo.miranda@plymouth.ac.uk**

Admittance to ICCMR Concert Series is free, unless otherwise stated. Some will take place in small venues or studios with limited capacity. Booking is highly recommended. To secure a seat, please refer to the ICCMR website or email the Series Coordinator.

Series Coordinator: nuria.bonet@plymouth.ac.uk

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STUDY WITH US:

BSc (Hons) Computing, Audio and Music Technology
plymouth.ac.uk/courses/undergraduate/bsc-computing-audio-and-music-technology

MA Music
plymouth.ac.uk/courses/postgraduate/ma-music

ResM Computer Music
plymouth.ac.uk/courses/postgraduate/resm-computer-music

PhD Music
plymouth.ac.uk/courses/postgraduate/mphilphd-music

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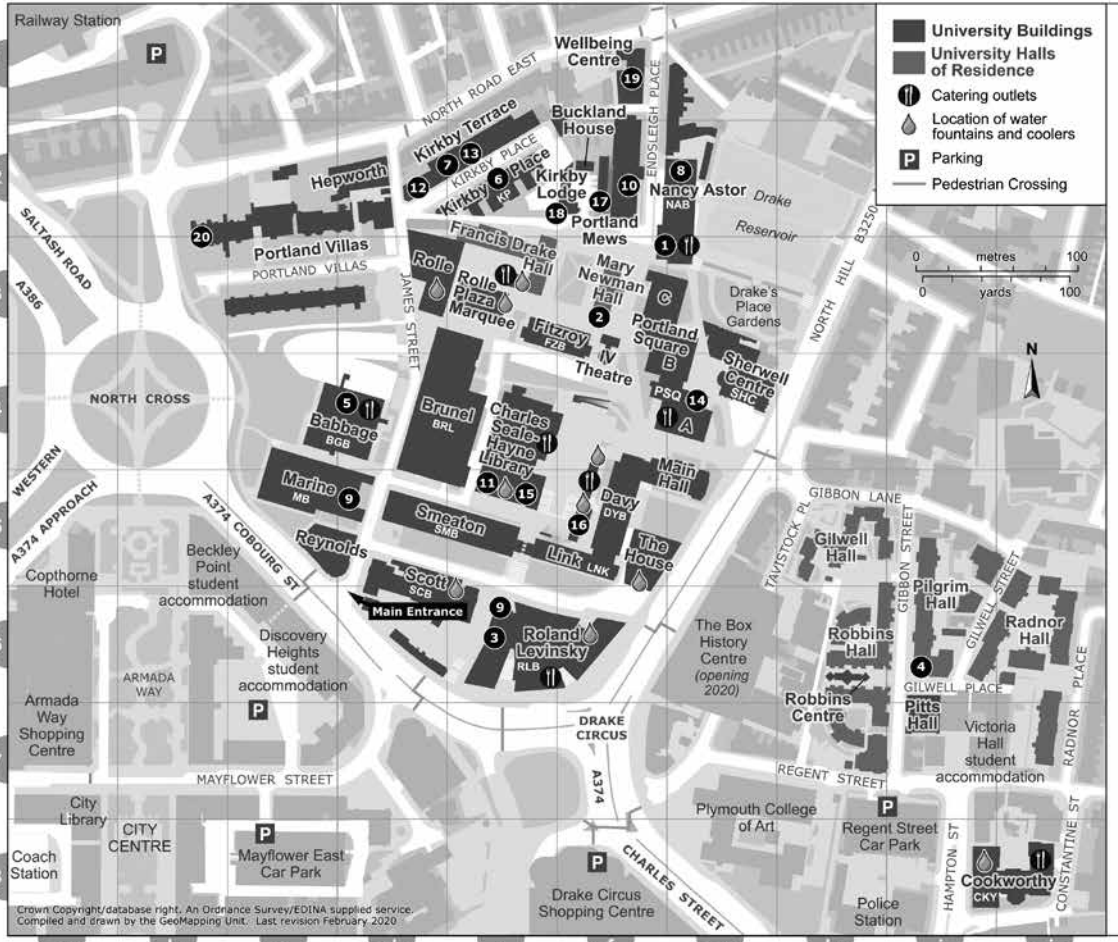

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1. Admissions
   01752 585858
2. Accommodation Office
   01752 588644
3. Card Office
   01752 588422
4. Centre for Eye Care Excellence (CEE)
   01752 583100
5. Computing Enquiries Desk
   01752 588588
6. Doctoral College
   01752 587640
7. Design and Print Centre
   01752 587260
8. Fitness Centre
   01752 588510
9. Formation Zone (Business start-up)
   0800 052 5600
10. Freshlings Nursery
    01752 588550
11. Library Enquiries
    01752 588588
12. Pastoral and Spiritual Support
    01752 587760
13. Post Room
    01752 588430
14. Security (24-hour)
    01752 588400
15. Student Hub
    Student Services 01752 587676
    Careers Service 01752 587456
16. Students' Union
    01752 588388
17. Student Services (Portland Mews)
    01752 587676
18. Sustainability Hub
    01752 585599
19. University Medical Centre
    01752 222341
20. University of Plymouth International College
    01752 411114

CCTV cameras are in operation on the University campus. Images are monitored for the purpose of crime prevention and public safety.
For further information contact 01752 588400