

# BULLETIN

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### **THE SITES FOR SPATIAL** AGENCY.

How the collaboration of two research studios is a catalyst for social change. - Text by Oratile Mothoagae

he exhibition PLASTICITY was a of specific information and data about the collaboration between two research context and communities. studios: the Reality Studio from The field study concluded with the student Chalmers University of Technology and the Unit curated exhibition PLASTICITY at Botaki of Urban Citizenship Studio from Boukunde. Ba Africa, a local art center in Hatfield. The This partnership is built on the development students created artistic manifestations of their of scholarship of civil engagement and experiences and encounters in Plastic View. participatory development within complex The art pieces of the four groups investigated urban environments. themes around communal cooking, This collaboration was part of a 22 week long transferring of information, temporality and project that was split into three: orientation and permanence, and local agriculture.

understanding, analysis and project start, and In the last six weeks of the project students project development. Most of the collaborative continued their collaborative-work towards work was done in the first 15 weeks of the the design of their project proposal that were project. During the first four weeks the two handed over to the respective communities studios were involved in intense workshops to and partners for further development. understand the complex urban environments within which they were working. The students To learn more about the exhibition and the from Chalmers University joined the Urban work, click here. Citizenship studio in Boukunde for six weeks for the field study of Plastic View. During this time students developed and applied methods Click on Image to watch video. and tools for communication between partners and organisations, as well as for the collection

### **UNIT FOR URBAN CITIZEN-SHIP STUDENT EXCHANGE**

Student exchange opens students' eyes to international civic engagement & participatory development trends. - Text by Oratile Mothoagae



of Technology's Reality Studio. During the last built during 1965-1974. five years, the two universities have established collaboration in research and education.

Four of our honours students, Khulikani Bila, Kyla Smith, Marie Landman & Natasha Zwarts, flew to Gothenburg on 19 August 2022 for their semester abroad. PhD candidate Jason Oberholster has joined them, where he will be conducting one of his case studies for his PhD research and serve as guest lecturer.

The international student exchange In the first week, students started with the Social programme is an initiative between UP Inclusion Studio. The studio visited various L Department of Architecture's Unit for communities in the Angered area where The Urban Citizenship and Chalmers University Million Programme public housing units were

> Look for more updates on their journey on the unit of urban citizenship on Instagram, Boukunde webpage and social media.













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# **INTEGRATIVE GREEN INFRASTRUCTURE PLANNING IMPROVES QUALITY OF LIFE IN THE CITY**

-Text by Dr Ida Breed

**•** outh Africa's urban population of 66.4% is urposeful planning, design and projected to reach 79.8% by 2050, according managed interventions are required J to the United Nations Department of **L** to provide accessible, multifunctional Economic and Social Affairs Population Division. and high-quality urban green infrastructure. A better local understanding of longterm Most of the urbanisation is taking place in the socio-economic benefits from urban green form of informal settlements, where people are infrastructure and possibilities for coliving in poverty and basic facilities and services are lacking. Added to this is the risk of projected management is required, including the climate change, manifesting as extremes in responsible development of a green economy, temperature and flooding patterns, threatening biodiversity protection, climate adaptation, the health and wellbeing of under-privileged increased social cohesion and enhanced equity. populations. The task of built environment To address this challenge in the City of professionals and local government to manage Tshwane, an integrative green infrastructure the trade-offs between social livelihoods and planning research project (GRIP) was ecological infrastructure is complex.

conceptualised by the Department of Under apartheid, planned vacant green spaces Architecture at the University of Pretoria operated as barriers to opportunities, separating in collaboration with the Department of neighbourhoods and communities. Today, this Biology at Aarhus University. Funded by the spatial segregation remains evident in the urban Danida Fellowship Centre under the Danish fabric, while there is a great need for access Ministry of Foreign Affairs, it aims to bring to welldesigned, multifunctional urban green about a strategic transformation of the social infrastructure. Planned as dormitories, former and urban landscape in the City of Tshwane through guidelines inspired by the City of "townships" still need mobility and green infrastructure to turn them into well-connected, Aarhus in Denmark for the improved planning healthy, mixeduse neighbourhoods. Open spaces and management of green infrastructure, are often of a low quality and are consequently such as public parks and conservation areas. perceived negatively by local residents. Purposeful planning, design and managed interventions are required to provide accessible, multifunctional urban green infrastructure.

infrastructure promotes reen -multifunctionality, which means that the same area of land can perform several functions at the same time. The research project support areas as corridors for biodiversity is providing new in-depth knowledge of local opportunities for the multiple ecological and social benefits of green infrastructure. It is also promoting the integration of governance and justice perspectives, and the development of concrete landscape design proposals to improve green infrastructure access, functioning and socio-economic opportunities.

Together with urban planners from Aarhus and Tshwane, private partners and students, the main research partners from Aarhus University and the University of Pretoria are cocreating knowledge and strengthening research capacities through the exchange of expertise. This relates to the question posed by UP's Landscape Architecture Programme about how urban planning can improve and protect existing green infrastructure to supply more ecosystem functions and services for both ecological and socio-economic benefits.

In 2021 and 2022, the GRIP honours studio focused on two sites in the City of Tshwane, comprising green spaces in Atteridgeville and Mabopane along rivers with informal social activities. The studio's aim was to map and develop integrated multifunctional green infrastructure networks for each of the areas to improve their long-term environmental and social health.

The studio also helped prepare young built environment designers to balance urban social and environmental needs and learn how these can be integrated into city planning and design. The studio proposed ecological and social network maps, and formulated strategies to improve access and socioeconomic activation, rehabilitation and the ecological protection of sections of the open space, with a set of supporting design guidelines.

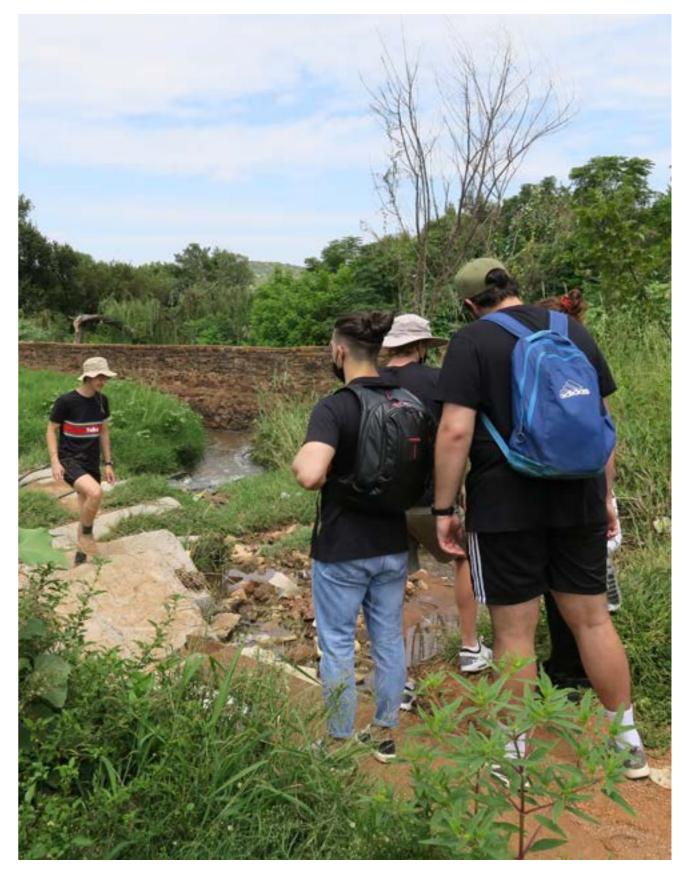
he studio analysed and proposed how existing urban green infrastructure L could connect to a network of ecological habitat enhancement, and as "greenways" that provide access for improved non-motorised transportation and recreational activities.

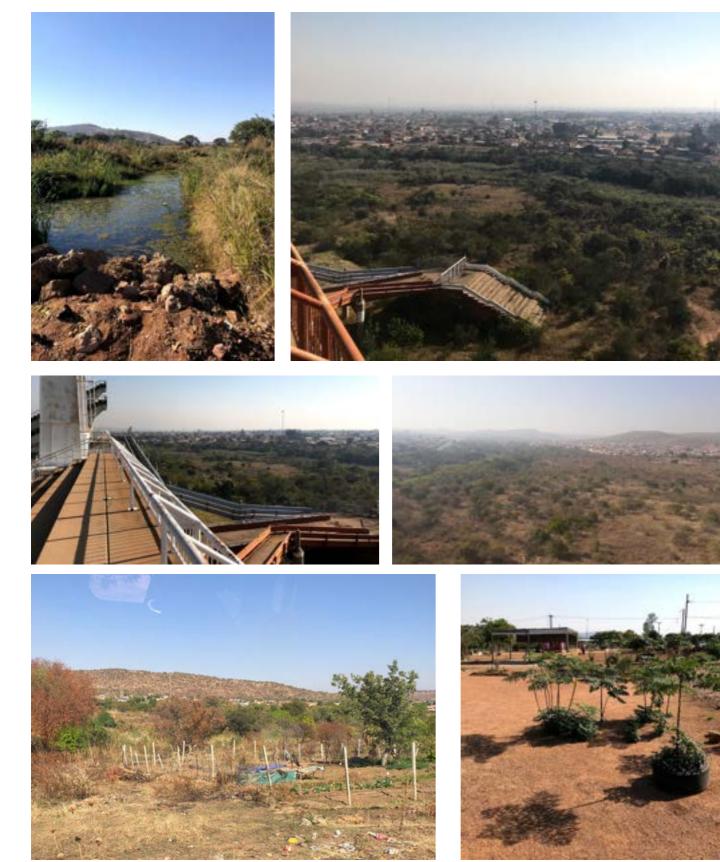
By responding to and building on broad-based existing spatial frameworks and geospatial data, on-site observations, and consultation with the residents, the studio sought to conserve biodiversity, improve environmental quality, reduce the urban ecological footprint, assist with climate change adaptation, promote social cohesion and make the shift towards a greener economy.

This included design thinking for climate and flooding regulations, generating a sense of place and local identity, and providing opportunities for green economic activities, such as recycling and urban food production.

Important principles for green infrastructure planning include the following:

- Connectivity: Green spaces should be connected in a network to provide ecological support areas as corridors for biodiversity habitat enhancement, and to serve as greenways that provide access for improved nonmotorised transportation and recreational activities.
- Multifunctionality: Open space cannot function in isolation. It needs to be integrated into the surrounding amenities and economic opportunities to attract people. This green infrastructure could increase residents' quality of life in the city by making the sites more liveable, health-promoting, equitable, biodiverse and climate resilient.
- integration: Green-grey Green-grey measures could assist to create habitats for





plants and animals, as well as with flood master's degree students are completing their retention, urban cooling and reduced energy design projects on the GRIP study sites. consumption. All of this can reduce the cost of conventional grey infrastructure.

- Social inclusion: Designers should be fostering an awareness of biodiversity values through collaborative urban green infrastructure planning that considers cocreation and co-management.
- (Storm)water management: South Africa is a water-scarce country. If well integrated and well designed, stormwater could have a beneficial use and function within natural and human-made systems. All open spaces along rivers need to consider stormwater and floodwater for safety, environmental functioning and potential system benefits.

he studio's outputs were presented and shared with the research team and with officials from the City of Tshwane's Environmental Planning Department. Two student projects from the 2021 GRIP studio won a first and third place, respectively, in two international design competitions. Four current



**T**ith their design developments, they wish to illustrate how planning and design initiatives could become catalysts for community co-management and increased social and ecological benefits. From a management perspective, integrative green local needs and demands, and allows for infrastructure planning aims to co-create planning guidelines that could assist with a unified green spatial planning vision that includes city officials, private developers, the community and designers.

> The long-term objective is that GRIP research will facilitate an improved quality of life in urban communities in the City of Tshwane by moving towards a more climate-resilient, healthpromoting, biodiverse and liveable city.





# GREEN INFRASTRUCTURE STUDIO

Designing for Integrative Green Infrastructure.

Integrative Green infrastructure context of both sites and stressed that architecture he Project (GRIP) aims to facilitate a strategic does not exist on its own but rather forms part of a L transformation of the social and urban whole. landscape in the City of Tshwane through guidelines At the end of each group presentation, there were that improve the planning and management of engaging conversations between the students, the green infrastructure. The research project provides panel from the city and the online professionals. new in-depth knowledge on local ecological The panellists commended groups on how their and social benefits of green infrastructure, and interventions considered stormwater and waste integrates governance and justice perspectives, management whilst being realistic. One of the key with concrete landscape design proposals to critques directed to one of the groups was being improve green infrastructure access, functioning conscious of what ecological impact housing brings and socio-economic opportunities. The main to a green space like the Skinner Spruit. research partners in Denmark (Aarhus University) and in South Africa (University of Pretoria) aim to This honours studio forms part of the departments co-create knowledge and strengthen capacities, key research focus areas. together with urban planners from Aarhus and For project details please click on the images to see Tshwane, private partners and students. projects.

In the first semester, the Green Infrastructure honours studio held its quarter one review at Boukunde. The students explored how to integrate designs in the historic "barrier" of the Skinner Spruit in Atteridgeville and Mamelodi. The studio aimed to formulate strategies for access, socioeconomic activation, rehabilitation, and ecological protection of these open spaces.

The proposals by the students were engaging and critical of the existing conditions. Like all student projects, they were ambitious, however remained conscious of zoning and land use rights. The students looked at how to respect the ecological

Text by: Oratile Mothoagae

#### Urban Green Infrastructure for Healthier Cities

Green Infrastructure Design Strategies for Atteridgeville, City of Tshwane. Department of Architecture, programme in Landscape Architecture, University of Pretoria. Student name (s): Siobhan Redshaw, Tayla Summerton, Taryn Glazebrook, Aa 'ishah Begg, Christopher Thompson & Gina van der Walt Date:07/04/2022 Title of this project: Atteridgeville Urban Vision Studio leader: Dr Ida Breed Contact: ida.breed@up ac.za

This work has been produced as part of the Integrative Green Infrastructure Research (GRIP) project, funded by the Danida Fellowship Centre.

Siobhan Redshaw Tayla Summerton Taryn Glazebrook Aa'ishah Begg Christopher Thompson Gina van der Walt

Q1 Exam 2022



# MABOPANE

#### GRIP STUDIO | GREEN INFRASTRUCTURE

Peter Gerber, James Seeliger, Cecilia Snyman, Jacques van Vuuren, Flavio dos Santos



### **ENGAGED SCHOLARSHIP**

#### **INTERDISCIPLINARY PERSPECTIVES THROUGH RESEARCH LED CREATION AND DESIGN**

Keynote panel discussion at the Online AMPS Conference, A focus on pedagogy, by the honours team in the Department of Architecture, University of Pretoria. - Text by Dr Anika van Aswegen

tudio leaders in the <u>Honours programme</u> of <u>Pretoria (AAUP)</u> addressing conservation, U at the online <u>AMPS Conference</u> in April of archive material in conjunction with 2022. The focus of the conference was 'A stakeholders. focus on pedagogy' where the group shared a variety of interdisciplinary approaches toward engaged scholarship in the architecture studio. A research-led focus integrates real-life contexts as part of the department's research, practice and teaching ethos of the creative practice, and its eco-systemicapproach.

Dr Anika van Aswegen shared humancentred design perspectives and various immersive methods to inform inclusive and transformative design responses addressing complex societal issues. Dr Carin Combrinck introduced the urban citizen studios, where in-situ context with community leadership and other stakeholders inform participatory action research and needs assessment. Dr Jan Hugo shared examples of learning from reality in climate change studios, translating learning from communities and translating theory into practice. Dr Ida Breed introduced biodiversity and ecological design studios, reconciling the relationship between humans and nature through various methods of engagement and transdisciplinary design. Johan Swart presents engagements of projects dealing directly with the Architecture Archives at the University

presented a keynote panel discussion interpretation, expression and utilisation

An interactive panel discussion followed the short introductions and panel members shared further challenges, opportunities and benefits of engaged studio practices. They concluded that engaged scholarship provide opportunities for engaged and progressive leaning, charting newdirections in practice - architects as future change agents.

For full panel discussion, click here.



#### **BOUKUNDE PRIZE GIVING**

The 2021 Academic Prize giving ceremony. Text by Oratile Mothoagae

were once again able to celebrate the students possible without the support from; Newtow of the 2021 academic year. The prize giving was the week before the SACAP validation allowing Bricks, Protea Bookshop, Tshwane Building in contact audience to appreciate the exhibition <u>Heritage Association</u>, <u>kwp create</u>, <u>BCK</u>, and the of students work.

The ceremony started off with pleasantries and an address from the HoD where she shared where the school was and where we are heading in the next coming years. Kick starting the ceremony were the undergraduates. Hanke Terblanche, Stepahnie Celliers, and Shannon Govender were the winners of the PIA best design students of first, second and third year respectively. The Urban Citizenship award was awarded to the honours student whose "work demonstrates a scholarship of civil engagement and participatory development within the context of a complex emergent African Urbanism. And strives to embed a culture of responsible and collaborative urban citizenship through design." This was awarded to Nicholas Hudson. In the professional master's prize winners included Jolene Botha, Cameron Forder, Heike Karberg and Wian Jordaan to name a few. Dr Carin Combrinck was the winner of this year's teaching and learning prize.

The department is grateful for the continuous

The student prize giving was held as a support of the various companies and hybrid event this year. With easing of individuals investing in our students. This L restrictions students, staff and parents years prize giving could not have been Landscape Architects, SmartStone, Bosun University of Pretoria.



hotos by Pencilpeople

# **COROBRIK STUDENT AWARDS**

Wian Jordaan wins Brick Award at the 2021 Corobrik Student Architecture Awards - Text by Oratile Mothoagae



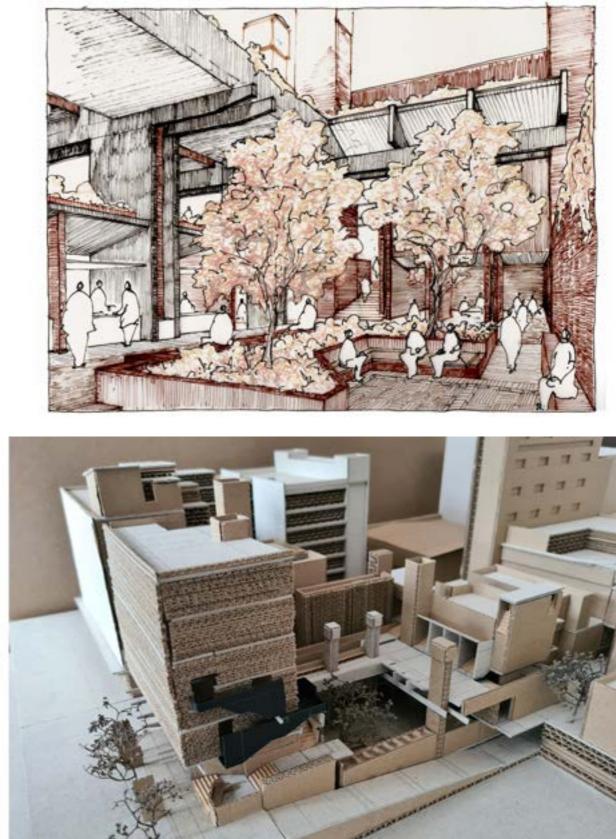
Awards

Announced on 8 June 2022. Wian's project, The Act of Refuge, "is dependent on the user's perception of space. The scheme creates internal public spaces that need to be perceived as external spaces to encourage public activities and

ian was among the winners of the<br/>35th Corobrick Student Architecturalbehaviour. This is achieved through the use of<br/>exterior materials such as exposed brick and concrete, natural light and natural vegetation in public spaces. Timber, ceramic tiles and diffused light help articulate more intemate and private spaces" Wian Jordaan.

For full video and ceremony, <u>click here.</u>







# **SACAP AND SACLAP ACCREDITED COURSES UNCONDITIONALLY**

#### - Text by Oratile Mothoagae

In the past year, the South African Council recommended the continued validation of all for the Architectural Profession (SACAP) and the architecture and landscape courses for the South African Council for the Landscape next five years. The SACAP board commended Architectural Profession (SACLAP) visited all academic staff for their commitment to Boukunde to consider the School's accredited architecture and landscape programs for special care they have shown to the students. It revalidation.

In a hybrid visit, the Boards reviewed various collated materials produced and presented by staff and students.

Boukunde is delighted that SACAP and SACLAP Visiting Boards have unconditionally

the teaching and learning programs and the noted the exciting, progressive improvements in the facilities and the resources that the Department of Architecture has implemented.

In an email addressing the reaccreditation, the former Dean and now Vice-Principal, Prof. Sunil Maharaj, said:

"Congratulations to you and your team for all a smart achievement, and the Department the work in making this a success with obtaining of Architecture can be commended on full accreditation. I am sure your Department the positive feedback received from the set a benchmark for the professional body accreditation panels. EBIT is proud of the and the accreditation team going forward. I Department of Architecture! Please convey hope they were impressed with your digital EBIT's congratulations to the rest of your team! crit lab and the other innovations in Boukunde The Head of the Department, Prof Chrisna and how you and your team are embracing du Plessis, would like to thank all staff and technology but yet still being people-centric to students for their hard work and determination meet the graduate attributes." in achieving continued SACAP and SACLAP The deputy Dean of research and Postgraduate, accreditation.

Prof Jan Ellof, added:

Congratulations on the unconditional validations (for all programs) of the SACLAP and SACAP accreditations! This is indeed

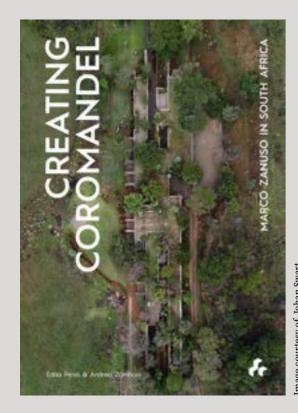


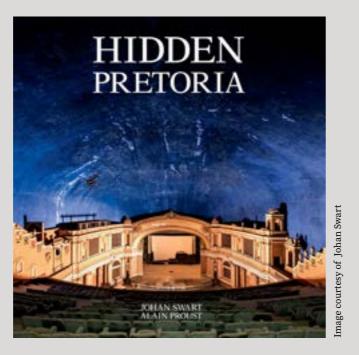


South African Council for the Architectural Profession

# **HERBERT PRINS COLOSSEUM AWARDS**

Boukunde Staff are recognised for their contribution to heritage publication and research. Awards - Text by Oratile Mothoagae





Tohan Swart and Prof Arthur Baker attended of the past decade since the last Colosseum Awards that were hosted by GiFA at the projects successfully completed between 2012 University of Johannesburg - FADA Auditorium. to 2022.

The awards recognise and celebrate outstanding contributions towards the conservation of heritage in greater Gauteng. The memorial award. Hidden Pretoria, the third book in a awards celebrate the heritage achievements series after Hidden Cape Town (2016) and

this years 2022 Herbert Prins Colosseum awards of 2012. This year's entries focused on

Hidden Pretoria by Johan Swart and Alain Proust received the Research and Publication





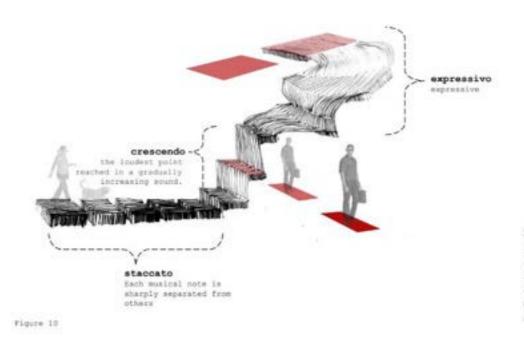
Hidden Johannesburg(2013), can be positioned Stones that Sing where he discusses the relative to classic publications such as London architecture and legacy of Marco Zanuso and Revealed (1989) and Colonial Houses of South the place it holds in the South African regional Africa (1987), which continue to serve as adaptation of the architectural discipline and valuable resources. Prof Arthur Baker collected practice. the Research & Publication commendation For details on the books, please contact Johan award on behalf of Edna Peres and Andrea Swart and Prof Baker. Zamboni for their book, Creating Coromandel. Prof Baker wrote a chapter in the book titled

# **FROM HUMAN-CENTRED TO HUMANITY-CENTRED** DESIGN

Text by Dr Anika van Aswegen

socio-cultural integration by considering L human-environmental systems through design. A series of immersive and embodied methods were used to bring challenge the role of systems of cultural integration were considered the architect in design projects. In quarter two, projects addressed deployable human-centred narratives as creative networks by integrating social research methods of empathy mapping, persona creation and simulated focus groups reflection. to develop context and user specific spatial interventions. Responses included multi-scalar proposals for the creative and performance art installations across the disciplines of interior architecture, landscape architecture and architecture.

The interior interface studios focused on The focus of quarter three reached wider by considering creative economies as catalysts for urban inclusion and transformation, albeit at human scale. Various scenarios and support within a high-density urban context. Students integrated themes of social inclusion, economic exchange, creative intervention and emotional well-being, through a process of critical self-







Lesson: Designing spaces that allow for both steadiness/stillness and expression/dynamic activity.

#### **NEW FACES IN BOUKUNDE**

Meet some of the not so new faces to join Boukunde.



Abrie Vermeulen: Lecturer

brie Vermeulen is a registered architect that completed his training at the **L**Tshwane University of Technology. He has been involved in Architectural education Johannesburg in 2017 (BTech. Applied Design) since 2018, and joined the Architecture and the Graduate School of Architecture in Department at the University of Pretoria as 2019 (MTech Prof). He worked as a candidate Lecturer in 2022. He is currently a proponent architect from 2016 through 2020, when he for the PhD degree in Architecture at the finally registered as a professional architect. University of Pretoria.

Oratile Mothoagae: Resource Centre Manager

ratile Mothoagae is a Pretoria based architect and filmmaker. He studied architecture at the University of

**Full Profile Link** 

Full Profile Link



Dr Calayde Davey: Lecturer, Coordinator: Professional Practice, Urban Strategy & Hatfield Digital Twin City Initiative

alayde holds a PhD in Environmental aiwo Afinowi is a professional architect, Design and Planning from the USA urbanist and postdoctoral research Jand a masters degree in Architecture L fellow. The fellowship is building a from UP. She has worked internationally in digital laboratory for the Hatfield Digital architecture, real estate development, Lean Twin City. Taiwo holds a Doctor of Philosophy construction management, corporate strategy, and a Master of Built Environment from the urban planning, policy development, and built University of Witwatersrand. environment innovation.

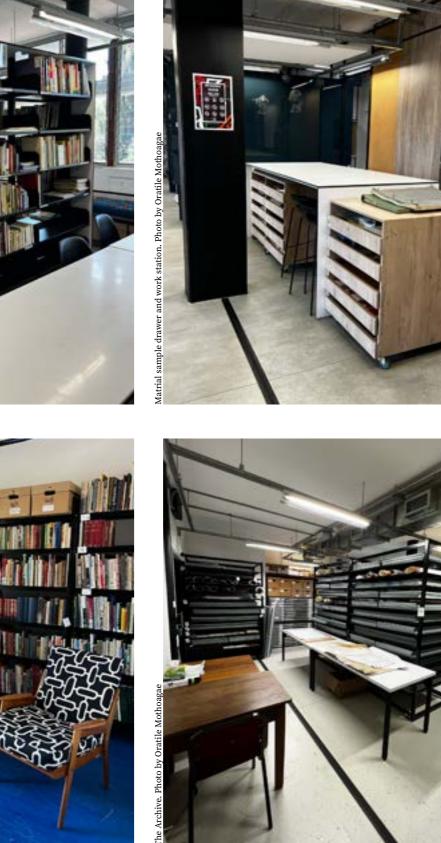
Full Profile Link



Dr Taiwo Afinowi: Postdoctoral Research Fellow, & Part-Time Lecturer Hatfield Digital Twin City Initiative

Full Profile Link





### **THE RESOURCE CENTRE**

The renovation of the Boukunde Resource Centre by thomashoff + partner architects breathes new life into the old. Text by Oratile Mothoagae



Large windows allow natural light in and provide views to the rest of the campus. Photo by Oratile Mothoagae

rchitecture studio thomashoff + partner The team worked with PG BISON to create architects have renovated the Resource smart shelving structures. They clad this with a **L** Centre for Boukunde's archive and library, combination of white and navy blue supagloss featuring innovative flooring and shelving systems melawood, with QR codes to provide students with that reflect the department's view on pedagogy. specifications and manufacturing information. The vinyl floor was done by <u>polyflor</u>, with each space Set on the third floor of Boukunde, the publicly featuring a different texture and colour. Each area has a QR code for students to get specifications. The aim is that the space becomes a resource for students.

accessible space functions as the reception area for Boukunde's archive, library and seminar space. The large glass curtain walls make the library visible, open and accessible to encourage student engagement and awareness of it while at the same time functioning as a secure working archive environment.

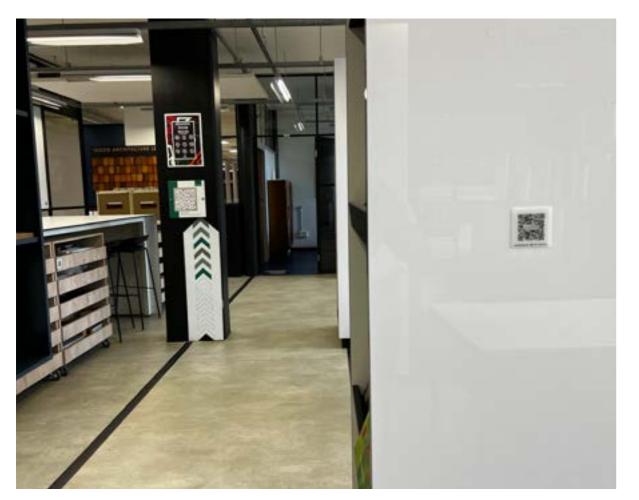
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T n the archive, custom shelving units were a private reading and discussion space. Other Larchival material whilst they are being large drawers and seating integrated into the processed and stored. The drawing archive is worktop/desk to handle material. At the west end situated in the Resource Centre to permanently of the resource centre is the blue room with an store processed drawings. There are shelves set eight-seater table for group work, discussions and against the archive walls, providing storage for different activities. Situated against the wall, three archive boxes and drawing rolls. There are also two centre tables in the centre of the archive. These workstations allow archivists and researchers to work in the space when handling more sensitive material.

On the east side of the Resource Centre is the "snug" with two bays of bookshelves for our special and rare book collection. This also functions as

designed to create plenty of space to store facilities include a martial sample library with of the bookshelves hold the extensive architectural journal collection

> The natural light that floods the space and the quietness creates a comfortable space to sit down and get some work done.



QR Codes of the various material. Photo by Oratile Mothoagae









### **THE BRIAN SANDROCK COLLECTION**

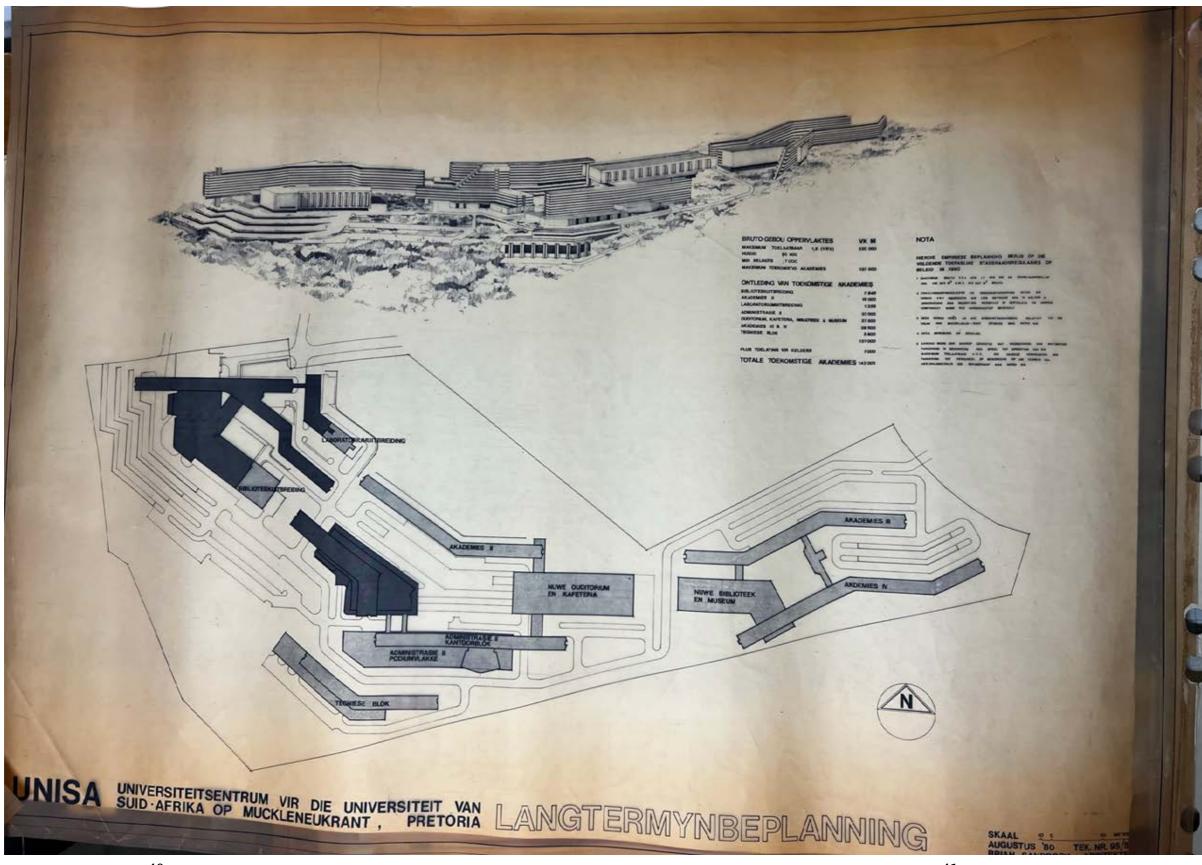
AAUP acquires the drawings of Boukunde Alumni and University of Pretoria and UNISA campus architect Brian Sandrock.



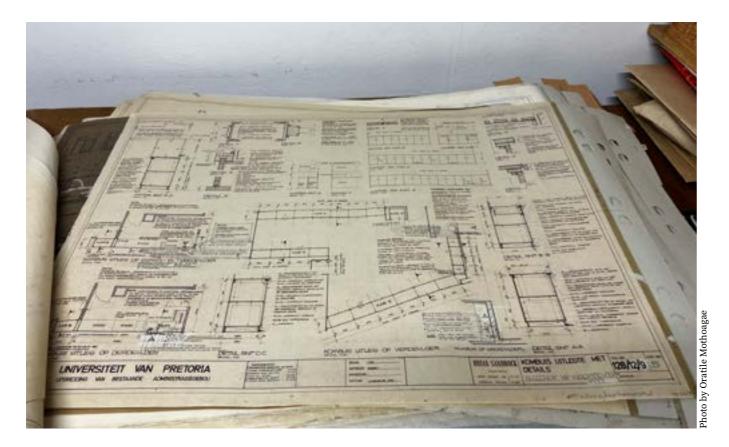
omprised of over 40 tubes, 20 rolls and renovations. Over 70 structures were built Typical of the time, the drawings were created is a brochure of Sandrock's completed work. using ink and pencil on linen and paper, and projects range from new structures to additions

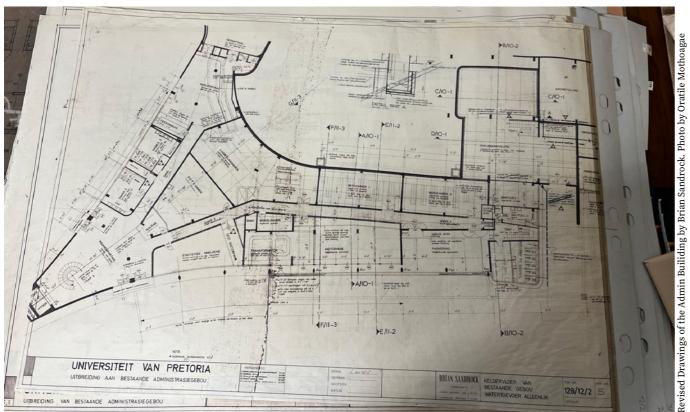
and 5 boxes of drawings, the Brian by this firm, and this collection contains records Sandrock collection was donated by from approximately 30 of those projects. The Jean Labuschagne to the AAUP in July 2022. projects range from public schools, university The collection contain architectural designs by buildings (UNISA and UP), commercial buildings Sandrock ranging from 1953 - 1990. The designs and private residences. A majority of these include sketches, technical drawings, structural buildings were built around Pretoria, but the and shopfitting drawings, topographic surveys practice worked on buildings in Cape Town.The and original municipal approved drawings. one publication that is included in the collection





oto by Oratile Mothc õ plex by Drawing of UNISA Con

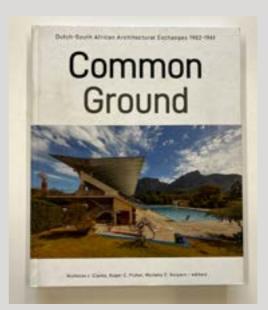




NEW ARRIVALS

Common Ground: Dutch-South African Architetcural Exchange 1902 - 1961 - N Clarke, et al.

s a sequel to the acclaimed *Eclectic ZA* **mathin** his catalogue features archival photographs Wilhelmiens: A Shared Dutch Built Heritage related to the work of four Dutch immigrant *L L in South Africa,* Common Ground revealsthe **L** architecs: Mello Damastra, Ed Payens, John great variety of styles and building types from this van de Werke and Jaap van Niftrik. Their various period, ranging from building for communities, design works in the 20th century South African religious practice, banking, industry, and civil context illustrate hybridity an international infrastructure to the evolution of the Pretoria exchanges in architetcure and serve as evidence of dwelling and low-cost housing. These contributions a unique shared architectural heritage. are also contentious as they relate to the time of the entrenchment of apartheid. Yet these architects' work is an undeniable part of South Africa today and often still in daily service.





Books to look out for on our shelves.

Architecture from the Archive: Shared heritage album - Johan Swart



Architetcure, State Modernism and Cultural Nationalism in the Apartheid Capital - Hilton Judin

investigation of the architecture of the apartheid state in the period of rapid economic growth and political repression from natural systems. To contextualise the challenges, 1957 to 1966 when buildings took ideological role it reports on several several Asian cities that have that was never remote from the increasingly succumed to ecological squalor, as well as others dominant administrative, legislative and policing that have begun to reverse the demages done, by mechanisms and looks to contribute to wider embracing a whole-system approach. The book discourses in international post war modernism is a resource for theorists and researchers who in architecture. This book will be pf great interest study how complex ideas translate into action in to students and scholars of architectural history a world constrained by reductive thinking, and as well as those with an interest in postcolonial profit motive.It's a signpost to policy makers, studies, political science and social anthropology

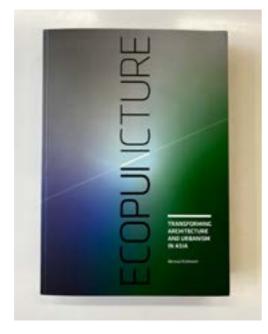
**ECOPUNCTURE:** Transforming Architetcure and Urbanism in Asia - Prof Nirmal Kishani

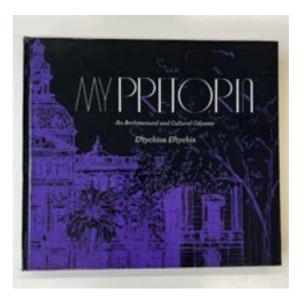
his book is the first comprehensive **mathin** his book unpacks misconceptions about Nature and sustainability, and examines the designer's rolein bridging human-made and planners, developers, and desogners striving to merge programme with aspiration, and so drive the design-construction processtowards surplus of capitals.

My Pretoria: An Architectural and Cultural Odyssey. - Eftychios Eftychis

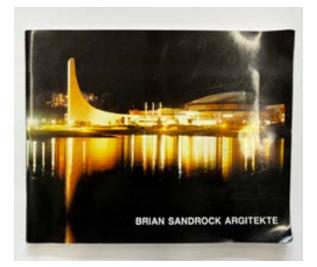
he book is an important contribution to the **T**ritten in Afrikaans, this brochure is architectural history of cityscapes insofar a collection of Brian Sandrock's most as it highlights the built environment of significant works. This includes, UNISA, the city of Pretoria (present-day Tshwane), the University of Pretoria and NERSA. adminstrative capital of Sout Africa. This work, which is a fushion of architetcure and art, provides insisght into the overlap of the history of the city and the author-architect Eftychios Eftychis's lived experiences in it. The buildungs in Pretoria chosen for this book are divided into the following categories: government, commericial, residential, places of worship, learning, parks and recreational buildings.







Brian Sandrock Argitekte - Brian Sandrock



# ECOGRADIA

The sustainable architecture and urbanism podcast by Prof Nirmal Kishnani - Text from Ecogradia



Ecogradia Podcast Cover. Image by ecogradia

Luncertain future? And are we doing what cities in the first episode. needs to be done fast enough?

Ecogradia is a new podcast looking for answers and more through stories, ideas and solutions from experts and practitioners at the front lines of sustainable architecture and urbanism.

Season one kicks off with three in-depth interviews that shed light on how sustainability is being moved forward on parallel fronts. Award-winning architects Wong Mun Summ

re buildings and cities doing enough? and Richard Hassell, co-founding directors of Are they rising to the challenge of an Singapore-based WOHA, canvass the future of

> rashant Kapoor, an architect turned financial advocate with the International Finance Corporation, World Bank, breaks down sustainable finance in episode two; while Wolfgang Kessling, a physicist now climate engineer with Transsolar KlimaEngineering in Germany, examines how to achieve greater comfort at a lower energy cost on the third episode.

s the climate runs amok and continues to Our global community is curious and committed, imperil the future of our planet, we are ready to be inspired and to act. If you're on board, L Seeing engagement take root all over the welcome to Ecogradia. You're in good company. world. To findout more about more please visit the

Governments, cities and the construction ecogradia webpage. Listen, share, review and industry are pursuing greener mandates. follow on the following Podcast platforms: Architects rethink the way they build. Amazon Music Manufacturers reassess materials and supply chains.

The challenge is the same everywhere: recast our habits and habitats from the ground up, in keeping with the global sustainability targets of 2030 and 2050.

And yet, for all the interest in cleaner energy sources and net-zero carbon communities, the march towards brighter days remains cautious, uneven, if not stubbornly sluggish.

We need to step up the momentum, sharpen the message, keep the conversation flowing. Report, inform, advise: that is, in essence, what we must do to move sustainability forward.

Ecogradia is a new platform devoted to sustainable architecture and urbanism.

On these pages and on our podcast, you'll find inspiring stories from thinkers and makers who are shaping a regenerative future. You'll learn about innovation and solutions from experts and practitioners on the sustainability frontlines.

Our mission is to champion all the good that is being built; enable and fast-track initiatives, big and small.

Our hope is to empower everyone, everywhere, to create a more resilient, hospitable and equitable home for all species, one blueprint at a time.

We believe that ideas have the power to change minds and trigger action. And as we inch towards our goals, we are emboldened to do more. This is the snowball effect that we need to change the world.

**Google Podcast** Apple Podcast <u>Spotify</u>

# **MINKY LIDCHI BOOK COLLECTION**

Johannesburg-based architect Minky Lidchi donates her library to the Boukunde reading room. -Text by Oratile Mothoagae

The Johannesburg-based architect donated position and teaching perspective. Acquisition eight large boxes with books and journals she of a major personal/practice collection like collected over her travels. The books span more Minky's is a wonderful illustration of the than 30 years and represent the architect's long breadth of this effort. and varied career. In addition, the collection is a key acquisition for Boukunde's reading room and is a step in its efforts to provide students with an ever-broader range of voices and perspectives.

Over the past years, the library has increased its holdings from retired practitioners. Previous acquisitions include book collections of prominent architect Alan Lipman and the collections of lesser-known individuals and alumni.

One of the fascinating parts of the collection is the books, pamphlets and journals on art. The collection indicates Minky's interest in Western and African art, from Gaugin, Manet and Renoir to African Textiles and craft. A series of international journals in French and English and catalogues from exhibitions around the world highlight her various design influences. Journal collections such as GA Houses and Architectural Digest point to the important task of understanding architectural design influences and thinking from around the globe.

hen it was time for Minky to donate The resource centre, which includes the reading her book collection, Boukunde's room and AAUP, is open to receiving material reading room seemed like right place. that aligns with the department's normative





### **BOUKUNDE TALKS**

Under the theme of encounters, this year's lecture series introduced students to architects and artists who experience serendipitous experiences in their work. - Text by Oratile Mothoagae

• of *Encounters* with a talk by Fulbright visual artist, researcher and curator Dr Laura Specialist Scholar Christian Stalberg; The de Harde Objects on Life-support. Ecological Civilization. Building on the topic of nature and sustainability, Nirmal Kishnani (Associate Professor of the National University of Singapore's Department of Architecture) presented Designs as acts of ecopuncture: Case Studies from Asia. In the lecture, he discussed the "pressing need to integrate blue, green and grey layers; to merge, greenery, and built elements in new ways to create robust socio capitals, partly due to how we build." Landscape architect Duncan Denley of desert INK presented the work done by their practice under the theme Context Driven Landscapes: Materials, Technology, Sustainability. On October 20th, world-renowned landscape architect Martha Schwartz (Tenured Professor at Harvard University's Graduate School of Design (HGSD) presented her talk on Climate change and the importance of the Urban Landscape.

The lecture series took a shift and brought the encounters back to the country with Boukunde alumni Bertus van Sittert's talk about the curtain house. Here van Sittert showcased his serendipitous experiences with the housing project. Daniel and Catherine of Downie North bring a macro perspective to their practice and apply it to the residential realm, focusing on

**T**n September, the school kicked off its the home's social and performative aspects. spring lecture series under the theme The school's lecture series was concluded by

> To learn more about the school's lecture series and event programming here or follow us on Instagram and Facebook.















# **FULBRIGHT SCHOLAR STAFF EXHANGE**

-Staff exhange with notable Fullbright Scholar Christian Stalberg. -Text and photos by Dr Jan Hugo

hristian Stalberg, a Fulbright Scholar, hristian proved to be knowledgeable undertook a staff exchange at the UP on multiple fronts. While he provided Architecture Department in the third Umuch-needed guidance regarding the quarter of 2022. As a specialist in building development and implementation of local performance modelling, sustainable design building performance modellings courses, and biomimicry, his input in our department he gave insights into diverse sustainability concepts and practices from his own was invaluable. experience - all highly relevant and valuable to Notwithstanding several delays and the our context.

COVID-19 crisis, Christian managed to join us in August 2022. He provided input in various We want to thank the University of Pretoria capacities teaching in the post-graduate and the Fulbright Programme for making this programmes and engaging with the local staff exchange possible and assisting with the architect community. Christian provided funding and coordination. We look forward to expertise and advice in the CPD 740 module, further collaborating with Christian Stalberg introduction course to building performance on implementing building performance modelling, and one of the honours climate modelling protocols and methods locally. change adaptation research projects undertaken in Melusi in Pretoria West. His inputs were not only linked to theory modules as Christian actively contributed to the MArch(Prof) and BArchHons design studios as an expert consultant.

While Christian's inputs in the post-graduate programme were precious, we also set up a Continuing Professional Development (CPD) course for local architects in collaboration with the Pretoria Institute for Architects (PIA). The course was an introduction to building performance modelling in the built environment and was well attended by local architects and academics.

#### **TUKS BIM HARAMBEE 2022**

How BIM and Digital Twins can transform the built environment. - Text by Dr Calayde Davey

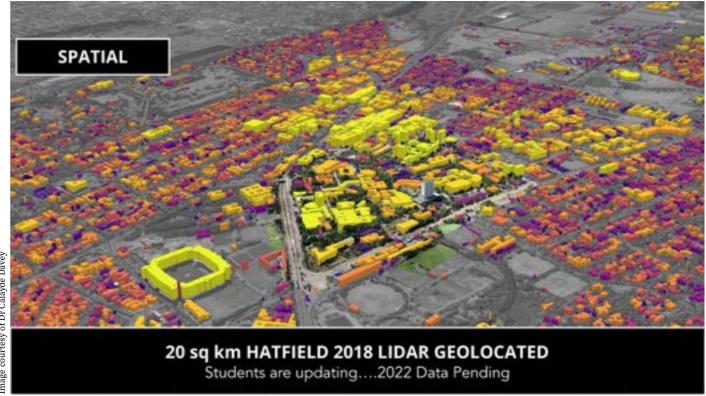


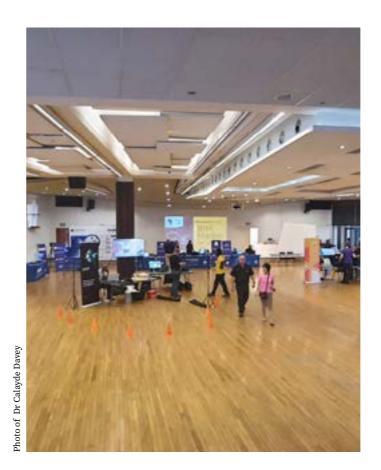
Photo bt Dr Calayde Davey

everything from buildings, roads, natural systems participants from all walks of life together, and communities. We are almost done with the celebrating technology in design, development first City Information Model (Level of Detail 1), and construction. Visitors could play 'tourist' for which includes over 1000 buildings and other the day and interact with the Mining department's urban infrastructure. This will allow us to plug VR and AR facilities, the super cool immersive smart buildings and smart city technology into a Mining Cylinder on the main Hatfield Campus digital platform where students, researchers, and and the fascinating Engineering 4.0 Research Lab other stakeholders can engage.

We hosted the TuksBIMHarambee 2022 this year. This initiative brings Building Information Management (BIM) practitioners (experts, novices and students, professional bodies, corporates and the public sector) from related industries to learn, share knowledge, and promote and highlight BIM practices. This year's event focuses on BIM: How do we practically implement BIM from theory to practice? Where can we start? What do we need?

he Hatfield Digital Twin City (HDTC) is How do we get more people and companies BIM a 25km<sup>2</sup> digital replica of the University compliant? What questions are we not asking? ▲ of Pretoria and its urban surroundings - This free event brought over 300 visitors and at the Hillcrest/Future Africa Campus. We also showcased the progress of the Hatfield Digital Twin City Initiative and had many engaging workshops and discussions on the future of built environment tech in Africa.







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#### **STICHING THE CITY WITH NEW COLLABORATIVE DATA LIBRARY**

- Text by Author Estie Powell

routinely collect fine-grained visual and on projects. This data is collected through facilitation has been developed to enable the transect walks, participatory action research, community mapping and participatory geographic information system (GIS) methodologies. It is often collected in the same areas year after year. What if all this data could be captured, geo-located and made available for future studies?

architecture departments of the University of interdisciplinary use (the ukuDoba method) Pretoria and Chalmers University of Technology in Sweden to collaborate on a project funded by the National Research Foundation (NRF) and the Swedish Foundation for International Cooperation in Research and Higher Education (STINT).

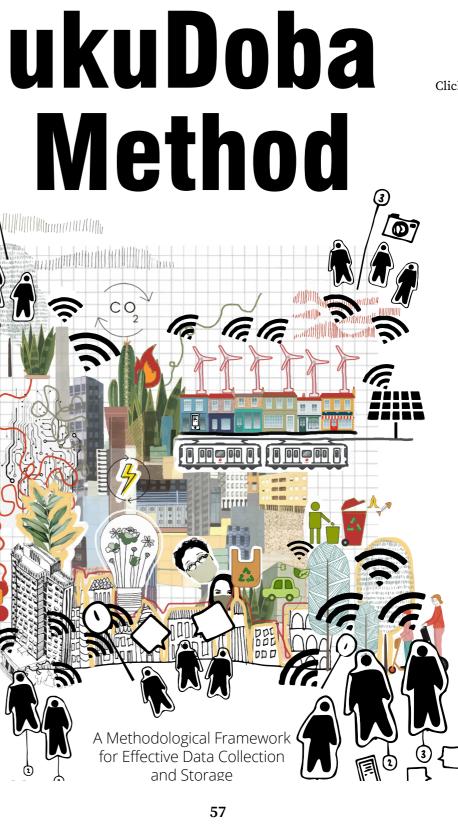
The Stitching the City - from micro-data to macro views project involved the collection and sharing of traditional and non-traditional spatial data at a street and precinct level in a georeferenced online platform. This crossdisciplinary micro-data can then be layered and easily accessed by researchers from different disciplines, as well as designers and community members.

Each year, students gather remarkable amounts of data on an ad-hoc basis and in many formats, which is not adequately stored and cannot be re-used for other purposes or by students

rchitecture (and other) students working in the same area in subsequent years. To overcome this absence of systematisation, Aqualitative spatial data while working a methodological framework for knowledge effective collection and storage of meaningful and useful visual, and place- and human-based spatial data that can accommodate different types of micro-scale data.

he framework consists of a shared data collection methodology for the effective collection and storage of fine-This is the question that inspired the grained multi-format geolocated data for and a collaborative data library for educational purposes. In isiZulu, the word "ukuDoba" means "to fish". The rationale behind this method is thus to help researchers to "fish" for the data they need and - over time - contribute to the larger data "pool". In this way, a digital commons is created for research related to communities, cities and environments.

> Adigitalplatformortoolboxwasfirstestablished for the collection, maintenance and analysis of the data identified in the methodological framework through the combination and integration of existing open-source tools and technologies such as smart phones, tablets and digital cameras. The collaborative data library was then tested at two urban sites in which the partner universities are already active: Mamelodi East, an informal settlement in the City of Tshwane, and Hammarkullen, one of ten city districts in Gothenburg, Sweden.



Click to Download.

toolbox took place in the University of Pretoria's Urban Citizenship Studio in Mamelodi and in Chalmers University of larger conversation about how to construct Technology's Social Inclusion Design Studio in Hammarkullen. Researchers in the University of Pretoria's Department of Geography, Geoinformatics and Meteorology were also involved in the development of the toolbox. The outcome of the collaborative project was the publication of a manual on the ukuDoba method, which outlines the methodological Framework.

The manual presents a step-by-step guide on the LukuDoba method to effectively collect, convert and store different types of data digitally on an fonline platform. These steps include research design, form design, data collection, data conversion, data analysis and interpretation, and the storage of the data in a data warehouse or GeoNode.

The collaborative data library that is an outcome of this method has the benefit of being able to provide a very rich longitudinal dataset that can be used by planners and policy makers to make decisions based on more than just demographic data. This is particularly relevant in the new world of Big Data analytics and digital twinning.

It has already assisted in the implementation of several innovative digital twinning and visualisation projects. In addition to the Hatfield Digital Twin City initiative, the method has found application in the development of the Digital Twin City centres at Chalmers University of Technology, and the VisLabs visualisation centre at the Universeum public science centre and museum in Gothenburg, Sweden.

The testing and development of the **F**The ukuDoba method and its related work efforts, experiments and data repository development contribute directly to a meaningful digital commons related to our cities, communities and environments to support 21st-century concerns. Commenting on the development of the method at its launch at the University of Pretoria's Future Africa Research Centre on 15 November 2021, Prof Chrisna du Plessis, Head of the University's Department of Architecture, remarked that this innovative platform is opening up opportunities for transdisciplinary decision making that have not been possible in the past. This will enable policy makers and researchers to obtain information at the right time, with all the finer detail that is required to make appropriate and relevant decisions.

> The collaboration between the University of Pretoria and Chalmers University of Technology that led to the development of this method is being taken a step further with planned future collaborations on digital twinning, as well as the design of a collaborative online master's degree in Public Interest Design. This programme will exploit the strengths of both institutions in terms of urban citizenship and social inclusion design. The proposed programme will be presented according to a carousel model with international registration and endorsement.

The Department of Architecture welcomes feedback and enquiries regarding the manual.

Contact: Prof Chrisna du Plessis - chrisna. duplessis@up.ac.za

### **[UN]CONFERENCE**

Research as Question - Research as Process - Research as Product Text by Dr Anika van Aswegen



The School for the Built Environment's PhD The Research [un]conference hosted on 30 and Research Support group is a joint September 2022 was the closing event for the initiative between the three departments year, which brought together PhD candidates and in the School for the Built Environment emerging researchers across the various research Architecture, Town and Regional Planning and fields. With the theme, Research as Question Construction Economics. The group was started - Research as Process - Research as Product, in 2022 under the coordination of Dr Anika van interactive discussions addressed research Aswegen, Dr Kundani Makakavhule and Tebogo and knowledge production from different Ngele. perspectives.

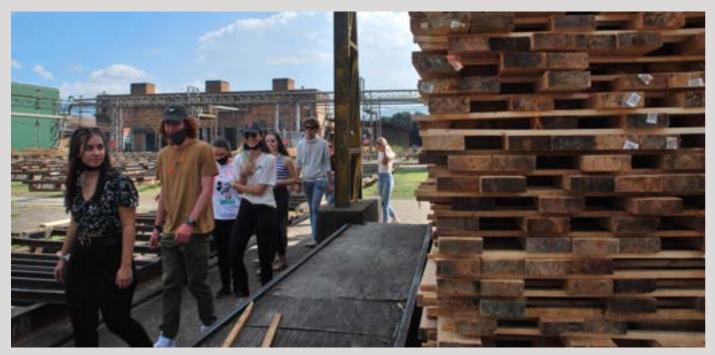
The group aims to expand informal connections Studying for a doctorate is exciting but it can and relations; to provide a platform for frequent, also be challenging, and having support from flexible and informal discussions to support one other researchers who share your experiences and understand what you are going through can another; and to build an informal network of PhD be hugely beneficial! The purpose of this group candidates and early career researcgers interested is to make the PhD journey worthwhile for built in contributing to built environment scholarship. A series of sessions during the course of the year environment students. provided opportunities for students to share and care as an informal network, including academic and scholarly assistance, but also emotional support to navigate the challenging terrain of postgraduate research.

#### YORK TIMBER FIELD TRIP

The second-year field trip - Text by Paul Devenish

The 2nd year architecture group of students visited Sabie in April this year to see the York Timber sawmills and plywood factory in action. We then spent a night with most of the class camping on the roof of Coromandel Estate near Lydenburg (architect Marco Zanuso; completed 1975), which was a fantastic experience for the class to get to know each other better after a long period of working online through the lockdown. On our way back, we stopped in Dullstroom to visit the Woud Blokhuis designed by alumni Juan Cloete who also featured as a guest lecturer for the 2nd year and Honours group of architecture students. A big thank you to York Timbers for making this exciting trip possible this year.





#### **HANDS-ON INQUIRIES**

Innovative design solutions that promote circular construction. - Text by Dr Jan Hugo



n response to a changing world, academic (exciting experiments with egg shells, corn cobs, programmes are continually morphing and and paper structures), bamboo-reinforced rammed L changing as the needs of our societies' and earth, movable foundations, easily demountable studentS change. Over the years, the Honours masonry walls, and flexible modular construction. programme developed to include diverse specialist Certainly, a wealth of ideas and their application studios, which provide the students with various were explored by the group as a whole. themes to explore and further specific teaching, he prototype results were shared over research or community-focused agendas of the a two-day exhibition workshop during studio leaders. While the final quarter is typically which lecturers and students discussed the planned as a critical reflection studio - essentially solutions, critically engaged on the outcomes, and leaving it to the students to identify their own shared advice on how to take it further. We thank project focus and its final articulation - this year, we the 2022 Honours group for their initiative and included the general aim of encouraging the studentsrigour. We are certainly looking forward to taking to explore circular construction by developing and this further in future. testing prototypes in the Architecture studio.

With circular construction in mind and a wealth of different themes to explore and prototype, the studio resulted in several forays into construction detailing, material choices and façade articulation. Each student, or group, took up the challenge to identify an aspect to explore, how to benchmark and test the experimental outcomes and integrate these into their final projects. Through challenging experiments, we discussed how to test the fire protection that recycled building materials provide, the use of food waste as construction material











### HOW OUR CITY IS ADAPTING TO CLIMATE CHANGE.

Developing our climate change adaptation capabilities in the built environment. -Text by Dr Jan Hugo



Image courtesy of Dr Jan Hugo

The climate change crisis is widely acknowledged, and there is an urgent call for action from civil society, academia and climate action groups. Built environment practitioners have an important role in lowering our cities' environmental impact, yet this is not where it stops. Several reports highlight the extensive negative impacts climate change will have on our cities in future. Hence, architects playa decisive role in minimizing our exposure to future



Image courtesy of Dr Jan Hugo

the larger Built Environment and Health Nexus project, the research group has been collecting ground-level data on heat stress exposure, the local climate change adaptation capacity and the perception of heat stress risks in Melusi, an informal settlement located in Pretoria west.

While collecting data on the lived experience and ground-level conditions in our cities are important, this project has also started to develop solutions for current and future problems in our cities. These initiatives involved:

1. Mapping the shared spaces and public spaces in the Melusi informal settlement by the 2022 Honours students aimed at develop tactical urbanism strategies to lower climate change risks and address the associated vulnerability of the residents.

As a result, several projects explored the inclusion of water points and stormwater harvesting strategies, street trees and vegetation and better access to emergency services.

2. The Honours Built environment and Public Health Nexus research group worked on a household scale by focusing on informal dwellings themselves. This involved documenting and simulating the thermal conditions and heat stress exposure within selected informal houses. The study explored several adaptation measures and tested the effectiveness of these response strategies to lower indoor heat stress exposure under current and future climatic conditions.

1. In addition to collecting empirical data regarding heat stress conditions, we also documented the perception of thermal discomfort and heat stress exposure of residents living in the Melusi informal settlements. Findings from a study by Zama Thusi highlighted how little we know about the thermal discomfort experienced by vulnerable communities and how much still needs to be done to convey and address heat stress risks.

Thile it is good to reflect on the work we have undertaken thus far, much more must be done. We are embarking on working with specific vulnerable groups, such as pregnant mothers, infants and children, in terms of their exposure to poor indoor environments in Melusi. On the other hand, we are also exploring climate adaptation in the more formal built environments, with studies by PhD candidates Abrie Vermeulen and Stanley Nyanyirai focusing on high-density living environments and the City of Tshwane as a whole. Certainly, there is a lot to look forward to and much that still needs to be done.







Image courtesy of Fieldworsk Design Group

### **SUSTAINABLE PRECINCTS -INNER CITY TRANSECTS**

BHons. Arch & LArch Studio Exhibition. -Text by Fieldworks Design Group

activity, politics, technology and economics". he rate of urbanisation in Sub-Saharan Africa and the Global South far exceeds The studio explores the role of that of the Global North, leading to Green Infrastructure in sustainable urban expansion and sprawl. Urban centres development (integrating responses to and local governments struggle to meet the social, economic and environmental problems) demand for housing, access to basic amenities on centrally located urban sites. The studio and fail to maintain and expand supporting introduces students to various theories of infrastructure. sustainable development, such as Landscape Centrally located land becomes a precious urbanism and Ecological urbanism, to develop commodity that may aid in dealing with the a Sustainable Precinct that explores sustainable rapid urbanisation issues that 21st-century living concepts in Rosebank, Johannesburg's cities face if well planned and designed. urban core. Students are to design and Urbanities of the 21st century are required to respond to the developer's brief to arrive at the combat environmental, social and economic architectural manifestation of a sustainable problems to provide relevant lifestyle offerings. precinct, enforced by ecosystem services provided by an array of green infrastructural As Silva (2012) stated, "The modern-day cultural landscape of man is no longer shaped by mere components.

geology, but by the forces of culture, social



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Image courtesy of Fieldworsk Design Group



Image courtesy of Fieldworsk Design Group

The Trumpet Atrium & Trumpet Annex was available from 15 September - 25 September 2022 as an exhibition space to display the outcomes of the studio. The exhibition consisted of group work (theory and framework), an individual component and an interactive platform for further engagement on the studio topic.

An extensive body of theory and academic writing exists on sustainability. Students were tasked to produce summaries on selected sustainability theories. These summaries and ideas are accessible through a theory web, which exhibits each student's literature review and informed normative position.

s a unit, students developed a spatial development framework in which individual projects are grounded. The framework, born from a site biography (which documents various biophysical, socioeconomic & infrastructural layers), questions the status quo and endeavours to provide an alternative precinct layout and urban form. An iterative process ensured that the framework developed into a spatial product. Development took place in the form of:

- various studio sessions,
- a framework charette and
- the interpretation of the literature review.

tudents selected an area within the **T**ntegral to the creation of a sustainable proposed framework where they would precinct is the anticipated user experience. position an individual design response L Students considered the user's experience to a selected programme (residential, and how the user's experience would evolve commercial, public amenities & education, at various points in their individual design transport infrastructure). Green infrastructure proposals. The aim of the individual pin-up principles are used as a guide by each unique component of the exhibition is to immerse design approach to arrive at an appropriate and the viewer in the envisaged user experience of sustainable architectural outcome. Individual each design project. design responses were developed as part of The interactive component of the exhibition an iterative design process, making use of the enabled further discussion on the studio following:

- diagrammatic explorations,
- makets and model building,
- · virtual models and massing exercises.

All projects interrogated proposed green infrastructural layers and explored how these layers are interpreted as design drivers. Case studies informed normative position and the design response.



The interactive component of the exhibition enabled further discussion on the studio topic. Prompts were provided in the form of graphics and text. Viewers could contribute to the exhibition by drawing their ideas on A5 drawing sheets, bumf over A0s and sticky notes



Image courtesy of Fieldworsk Design Group

# **SUSTAINABILITY SHORT FILMS.**

What happens when there is no more? -Text by Oratile Mothoagae

related to living in the 21st century and the were assessed by staff and students. Here are impact of climate emergency and resource 5 of the films screened by the Boukunde Film depletion on our collective future as earth Club. To watch the film please click on poster. dwellers. Students were tasked to produce short films that made them cognisant of their consumption practices and made others aware of the impact of unsustainable consumption within the built environment. They needed to investigate the implications of the current way of designing residential buildings in the

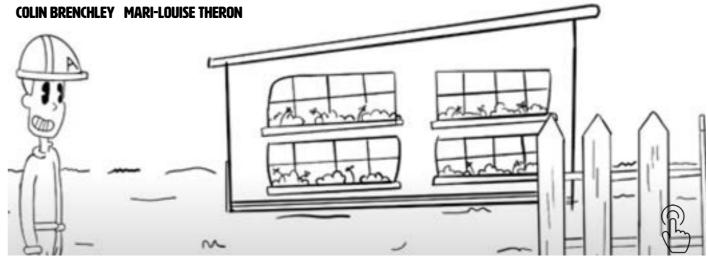
s part of the module AAL 320 this projecy South African context. Finally, they had to focused on understanding some of the interrogate and present possible alternatives Lealities within the built environment for a more hopeful future. The short films



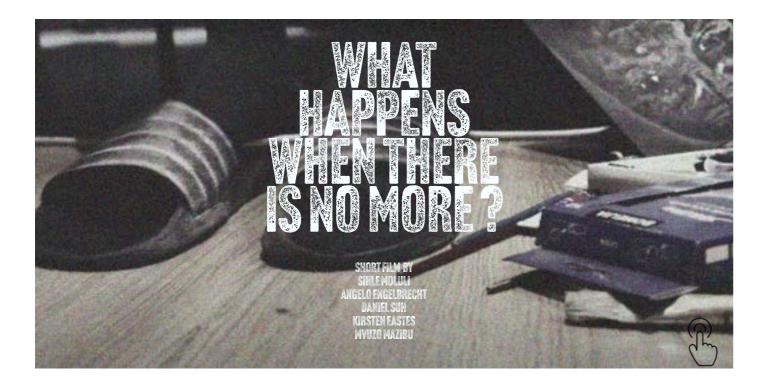


# CONGRATS

SHORT FILM BY ABIGAIL KRUGER VERUSHKA GOVENDER AMY BURMAN



| short film by<br>elandri van aardt | ruben marais | herkie coetzee | prieuru eckerman | boikanyo matsema |
|------------------------------------|--------------|----------------|------------------|------------------|
|                                    |              |                |                  |                  |
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**5 DECADES** 

-Text by TUT's Department of Architecture's Archive of Design and Architecture



The archive of design and architecture and practitioner and how he overcame all the presents "in plain sight: 5 decades of adversaries. The documentary style uses a mix Aziz Tayob" in association with TUT's of archival footage and interviews with Aziz Department of Architecture and Industrial Tayob and Sushma Patel. design. A SSL-Studio production edited by The documentary will be freely available after Nhlakanipho Mashinini sound engineered by it's festival run later this year. For more details finaltrax. Director of photography Nhlakanipho on the TUT department website and social Mashinini. Executive produced by Amira media platforms. Osman and Emmanuel Nkambule, produced by Oratile Mothoagae and Nhlakanipho Mashinini.

The In Plain Sight documentary series is a long-term project that follows the lives and works of architects and designers of colour that have been excluded from history. In the first episode, we follow the story of the first black architect in South Africa, Mr Aziz Tayob. He recalls the discrimination he faced as a student

### FACULTY TEACHING AND **LEARNING AWARDS**

 $\mathbf{T}$  n recognition of its commitment to its Electronic and Computer Engineering Environment and Information Technology the University's corporate Teaching and has presented Prof Carin Combrinck and Learning Awards. For more details on the other staff with its annual Teaching and Dr Combrinck's awards, please click here. Learning awards. Prof Combrinck and joint winners from the Faculty of Electrical,

students, the Faculty of Engineering, Built were selected to represent the Faculty in



# **DR CARIN COMBRINCK LEADS AN INTERDISCIPLINARY TEAM AWARDED THE SCIENCE SHOP GRANT** FOR COMMUNITY-BASED **RESEARCH**.

Co-Creating wellness and human dignity. - Text by Oratile Mothoagae

Pretoria's Community Action Plans. The goal is to he University of interdisciplinary Team has been awarded enhance community cohesion and address L the Science Shops grant to address the the most pressing needs of the residents, pressing issues facing informal settlements with a focus on mental and child health, dietetics and sanitation, and early childhood in South Africa. Led by the Architecture Department's Dr Carin Combrinck, other development. The interventions identified disciplines include Family medicine, through the Community Action Plans will Public Health, GeoInformatics, Social contribute to the establishment of stronger Entrepreneurship, Leadership, and Sustainable social organisations with the settlements, Development. The Team will focus on the allowing for better representation and contribution towards implementing relevant specific settlements in the City of Tshwane, Plastic View, Cemetry View, and Melusi, which policies. have a population of between 8 0000 and 27 0000 The project will directly impact women residents. Residents of these settlements face and children in the settlement, who are significant challenges, including inadequate **L** among the most vulnerable populations. essential primary care, poor sanitation, The Team recognises the importance of and limited education opportunities, addressing the socio-spatial inequalities of the which contribute to cycles of poverty and past and views this project as an opportunity undermine the possibility of social cohesion. to create positive change through collaboration The Team aims to address these issues and negotiation with all parties concerned.

through a participatory approach using the ukuDoba method to collect data and develop

# **BEST LECTURER IN EBIT**

**L** student representative presented Prof

n October last year, as part of the EBIT Barker with a certificate for being the 2022 Best Faculty House annual event, the EBIT Lecturer in the School of the Built Environment.



# **INTERSECTING SPACES AND FORMS: THE DOODLES OF PROF ARTHUR BARKER.**

Discover the beautiful doodles of esteemed Lecturer, Architect and Artist. -Text by Oratile Mothoagae



steemed lecturer, architect and artist Photoshop. The colour is added to express Prof Arthur Barker has been creating a mood, and Barker often gives the images unique doodles for over forty decades. unique to reflect this. The final product is printed on white card and is either given away Starting as a student at the University of Cape Town in the 1980s, friends encouraged Barker as gifts or displayed in exhibitions such as the one hosted by the PIA, Architect as Artist. to share his doodles with a broader audience.

Barker's doodles start as simple sketches on any available paper and are drawn using a black felt tip pen on white paper with no specific intentions in mind. The final images, typically A4 size, result from Barker's hand and eye guiding the pen. While the doodles do not represent anything in particular, they are intended to graphically capture a range of intersecting spaces and forms, reflecting Barker's architectural background.

After completing the black and white doodles, Barkers scans and adds colour to images using



Seasons by Prof Arthur Barker. Images courtesy of Prof Arthur Barker.

narkers's work captures the world's beauty and wonder, presenting it Uniquely and captivatingly. Through his decades of doodling, he has created a body of work that is both personal and universal, appealing to audiences of all ages and backgrounds.

Prof Barker's work formed part of the PIA's Architect as Artists exhibition at the Trent Gallery in Waterkloof, Pretoria. For other artists and news, click here.









# **2022 BOUKUNDE COROBRICK AWARDS**

-Text by Oratile Mothoagae



The MProf valediction is Boukunde's annual As per tradition, the event was organised in celebration for the masters' students in conjunction with the corobrik awards. Once again, L the Architecture, Interior Architecture and students produced rigorous work. The prize for Landscape Architecture streams. Having taken the best use of clay went to Wessel Ebersohn for a pause in 2020/21, it was great to have students, his project Rethinking brickwork as contemporary parents, and partners come and celebrate the technology. The second runner-up was Annique occasion with us in person. Haese for her project, Research-led design activism towards negotiating change through placemaking Boukunde is committed to encouraging the next and propagating dignity for the urban citizen. First, generation to become passionate about their runner-up went to Conrad Venter for his project role as designers in the 21st century. To co-create Salacia¬ -A harbour for a cultural landscape. better futures for the environments and societies ¬Melicia van Loggerenberg is Boukunde's Corobirk within which they will work and honour the award winner for her project Environment as a diverse legacies that shaped the present. Our goal cognitive prosthesis. Congratulations to all the is to celebrate the opportunities for innovation and students, and we wish Melicia all the best at the experimentation and to bring together students National awards, where she will represent the from different disciplines to share their creative school.

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COROBRIK

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