

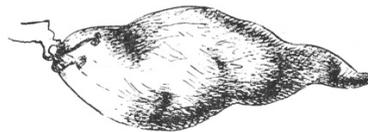
ARCHDES 701 | ADVANCED DESIGN 2 | TOPIC OUTLINE | SEM 2 2019

The Advanced Design 2 topics are structured around the theme of 'urban patterns'. At their broadest, the topics foreground large-scale urban investigations concerning infrastructure, context, landscape, architecture, relationships between these factors and patterns of inhabitation thus supported. Crafted propositions are to be developed that demonstrate an exploration of the urban patterns theme across a range of scales.

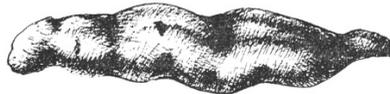
Andrew Burgess

Andrew has recently returned to New Zealand after working as an Assistant Professor at the Tokyo University of Science. He has a Masters of Environmental Studies from the Graduate School of Frontier Sciences at the University of Tokyo and a PhD in Architecture and Urban Planning that investigated the relationship between food systems and urban structure also from the University of Tokyo. He also has worked in architectural offices in New Zealand, the UK and Japan.

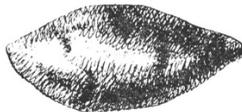
KŪMARA



1. *Rokamaraa*



2. *Haitihaiti*



3. *Pehu*



4. *taraanahae*

Illustration of pre-colonial kūmara varieties. Tapsell, Enid. *Original Kūmara*, The Journal of the Polynesian Society, Volume 56, No. 4, 1947, pp 325-332.

GENERAL COURSE INFORMATION

Course :	Advanced Design 2 ARCHDES701
Points Value:	30 points
Course Director:	Andrew Douglas andrew.douglas@auckland.ac.nz
Course Co-ordinator:	Uwe Rieger u.rieger@auckland.ac.nz
Studio Teacher:	Andrew Burgess
Contact:	a.burgess@architectureisnow.com
Location:	TBC
Hours:	Tuesday and Friday 1:00-5:00pm (TBC)

For all further general course information see the ARCHDES701 COURSE OUTLINE in the FILES folder on CANVAS.

"A resilient, well-nourished, well-connected community"

Kai Rotorua mission statement

OUTLINE

Kai Rotorua is a volunteer organisation based in Rotorua dedicated to improving social outcomes through food. The organisation is looking to transition from a non-profit organisation that relies on external funding towards a self-sustaining social enterprise. As a part of this process they are planning to construct a "Food Hub".

As well as Kai Rotorua there are a number of other stakeholders involved in the project such as Rotorua Lakes Council and Scion, a Crown research institute that specialises in forestry and wood-based material research. As such there are a number of guidelines and frameworks that must be adhered to, including Rotorua Lakes Councils Vision 2030 plan and the Living Building Challenge.

The brief is to propose a location, program and design for the "Food Hub" that navigates each of the stakeholders frameworks and at the same time inspiring Kai Rotorua and the Rotorua community.

To do this we will take a critical look at the spatial dimensions of food systems across multiple scales from plate to table to kitchen to shelf to field to ecosystem.

THEORETICAL FRAMING



Fish'n'Chip Shop Interior, Rotorua. Simultaneous expression of multiple food trajectories; role of kumara in regional history telling, cultural identity, global systems, health outcomes concentrated into a single point in space.

This theme investigates the transformative power of kumara. Kumara has significant value for Māori as a pre-colonial staple. Grew well in Rotorua (and Northland) so it's one of the few horticultural outputs of Rotorua. For Kai Rotorua kumara has not only symbolic meaning towards their aspirations to reconnect community to Papatūānuku, but also literal. The health, economic and social benefits of kumara are seen as a means to address a number of social issues including poverty, gender inequality, resilience, social inclusion, health and wellbeing, and economic and environmental sustainability.

Food systems and foodways are becoming increasingly important in a wide variety of social issues ranging from food security to cultural identity. Food crosses all demographics, social structures and populations. Simply, everyone eats, or wants to eat. Not only does food

form part of our cultural identities, in a pragmatic sense movement of food from point of production to point of consumption directly influences the shape and form of our cities. Further, acquiring food is a highly frequent, regulated activity that structures daily routines. Changes in this system has recursive effects that reverberate across communities.

This topic will consider urban patterns from the point of view of foodscapes across multiple scales:

Plate: dietary intake, portions, packaging, utensils, identity

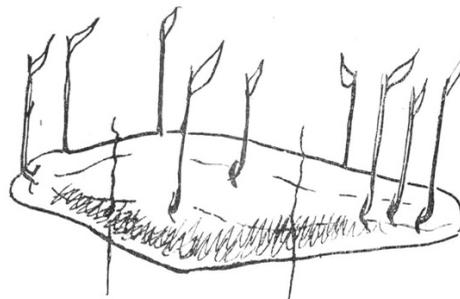
Table: community, abundance, inclusion

Kitchen: cooking, gender roles, diet, nutrition, waste

Shelf: consumption, social inclusion, food access, food deserts, distribution, storage/packaging, availability

Field: provenance, ecosystems, sustainability, traceability, local economy, Māori economy, equity, climate, seasons

This theme investigates the recursive relationship between food and the city with a view to exercise the transformative power of kūmara.



divisions for PLANTING.

- (1) IA ROA MA HOE
- (2) PEHO
- (3) REKA MA ROA

Divisions for Planting. Tapsell, Enid. *Original Kūmara*, The Journal of the Polynesian Society, Volume 56, No. 4, 1947, pp 325-332.

TOPIC STRUCTURE AND CONTENT

The focus of this topic is to firstly develop a strategy for the siting and programming of a “Food Hub” for Rotorua and secondly present an architectural solution for this strategy. As of yet, there has been no architectural expression of the “Food Hub” and so one of the key points of this topic is to develop a brief with the stakeholders and provide a tangible vision for the project.

Developing a strategy will involve, based on individual and group research as well as stakeholder interaction, taking a position on what a “Food Hub” is, choosing a site within or near the Rotorua inner city and developing a building program.

This will lead to a meaningful architecture that addresses the complexity of food, integrates into Rotorua’s food system and at the same time creates new potential for the community.

A field trip that involves site analysis and a workshop with Kai Rotorua and other stakeholders is planned for Week 3. Students will be required to design a workshop to help develop their brief/program. Initial investigations and research will generally be done in groups from which individual explorations will develop in the second half of the semester.

Specialists in the Living Building Challenge and the stakeholders themselves will visit the school over the semester to offer insight and feedback where required. While the rigours of the Living Building Challenge are beyond the scope of this topic students are expected to deliver an architectural solution which acknowledges the sustainable principles that drive Kai Rotorua.

Kai Rotorua are looking forward to aspirational and inspirational architectures which will broaden their understanding of the potential for architecture to instigate community transformation.

SPECIAL NOTES

This is a live project requiring students to work with real stakeholders with the appropriate level of respect. The cost of bus travel to and from Rotorua and accommodation across two nights will range between \$80-\$120 depending on room type (prices range indicates range between shared accommodation or a private room at the YHA).

A field trip to Rotorua is planned for Week 3. This will include not only site investigations but working with stakeholders in a workshop setting to extract and shape issues, knowledge and ideas.

This topic will include a combination of group work and individual work, as detailed in the schedule.

Subject to discussion and for those that wish to do so, there is an intention to collate analyses and final proposals to be presented to Kai Rotorua.

WEEKLY SCHEDULE

This topic involves a combination of groupwork (G) and individual exploration and development (I). Students are expected to contribute towards the monitoring of their own and group progress to make sure that progress is being made and milestones are met. Any amendments to the schedule will be discussed collectively.

The work flow is conceived as

Tracing; tracing existing and past research,

Mapping; applying knowledge onto our parameters (spatialisation in context),

Plotting; selecting specific paths and points of views within this system or context,

Emergence; drawing out ideas, pushing and pulling existing knowledge framework to create new uncharted positions,

Release; full architectural exploration, pushing ideas past breaking point, creating feedback loops to give an architecture self-sufficiency;

Communicate; transfer discoveries to others.

Week	Date	Event
Week 1	Mon 22.7	12:00 All architecture meeting, rm 311 3:00 AD2 staff presentations and studio ballot
Tracing	Tue 23.6 Fri 26.7	Understanding food and architecture; Tracing the histories of food at all scales (G)
Week 2		
Tracing	Tue 30.7 Fri 2.8	Understanding Rotorua; Tracing the histories of food at all scales (G) Field trip preparation (G)
Week 3		

Mapping	Tue 6.8 Fri 9.8	Spatialisation of knowledge and ideas (G)(I) Rotorua field trip July 9-11 (G)(I)
Week 4 Mapping	Tue 13.8 Fri 16.8	Preliminary presentation of urban analysis (G) Program diagrams and site analysis, modes of inhabitation (I)
Week 5 Plotting	Tue 20.8 Fri 23.8	Selecting paths and routes within knowledge system. Initial positions (I)
Week 6 Plotting	Tue 27.8 Fri 30.8	AD2 Mid semester crits (Final presentation of urban analysis (G), program/organisational diagrams (I), concept models and sketches (I)
MID-SEMESTER BREAK		
Week 7 Emergence	Tue 17.9 Fri 20.9	Extracting architecture from the site. Full exploration of form and structure (I)
Week 8 Release	Tue 24.9 Fri 27.9	Developing proposal (I) Cross-crit
Week 9 Release	Tue 1.10 Fri 4.10	Refinement, multi-scale design exploration from site to details (I)
Week 10 Release	Tue 8.10 Fri 11.10	Internal presentation of individual work (I)
Week 11 Communicate	Tue 15.10 Fri 18.10	Expression of design proposal (I), collation of groupwork (G) Design Report
Week 12 Communicate	Tue 22.10 Wed 23.10	AD2 Final Studio Reviews

RESOURCES

Reading and materials will be discussed and given over the course of the semester depending on paths taken.

One initial starting point could be:

- Food City. Lim, C. J. Routledge, New York

We will also touch briefly on guidelines and frameworks in architecture. To this end we will be discussing:

- The United Nations Sustainable Development Goals
- Rotorua Lakes Council Vision 2030
- The Living Building Challenge

REQUIRED PRODUCTION

First Half of Semester (Groupwork and Individual work):

1. Analysis and presentation of each potential site. (Groupwork)
2. Design, planning and execution of a stakeholder workshop (Groupwork)
3. Diagram of Food Hub organisation and program (Individual)

Second Half of Semester (Individual):

4. Presentation of an architectural proposal which will, unless approved otherwise, include:
 - urban context (site plan)
 - plans and sections to show the relationship between spaces, and structure
 - perspective drawings and sketches to show the anticipated use of spaces
 - a model of the site
 - a detail model to show the relationship between at least two materials
 - diagrams and drawings to show the “Food Hub” 20 years from now (How the facility might be renovated or adapted to fit a change/increase/decrease in use) .

DESIGN REPORT

Advanced Design 2 requires the preparation of a **Design Report**. In 2019 this will be prepared in a workshop as part of the core course taught con-currently with studio, *ARCHGEN 703 Design as Research*, where it will account for %40 of the grade. While assessed as part of the Design as Research course it will be focussed on the studio project and should be refined and re-submitted to your studio teacher in week 10 so that it can be circulated to the critics allowing them to prepare ahead of the final review.

ASSESSMENT & FEEDBACK

This course is assessed as 100% coursework. Conversational feedback is given throughout the semester. Written feedback, with

indicative grading, is given at a date around the mid-point of the semester. All further information regarding assessment is available in the ARCHDES 701 Advanced Design 2 Course Outline (on Canvas).

LEARNING OUTCOMES

General Course Outcomes & Specific Outcomes for this Brief

On successful completion of this course students should be able to:

- *Theory*: Show evidence of development of critical thinking and conceptual consistency throughout the design process.
Theory: Develop an ability to understand how guidelines and frameworks of varying scales inform architectural discourse. Use systems thinking to interrogate relationships between architecture and other disciplines at a variety of scales.
- *Architectonics*: Demonstrate abilities to advance conceptual thinking and design propositions through identifying and addressing issues of materiality, structure and construction.
Architectonics: Explore materiality and structure as it relates to sustainable principles.
- *Performance*: Show abilities to advance conceptual thinking and design propositions through interrogating and addressing in depth the natural environmental, contextual, and programmatic factors underlying the project.
Performance: Demonstrate an ability to transpose social goals and outcomes onto building program and performance. Understand the role of architecture within an organization.
- *Form and Space*: Demonstrate skill in the development of three dimensional architectural form and space, both exterior and interior.
Form and space: Show an understanding of how research results directly influence the form and space of an architecture.
- *Media*: Display skill in the communication and development of conceptual, preliminary and developed design propositions through the strategic use of architectural media.

Media: Develop ability to communicate architectural ideas and concepts as well as design proposals to non-architects.