

Rotch Travelling Scholarship

2013 preliminary competition



MULTI-GENERATIONAL HOUSING TYPOLOGY

According to the World Health Organization 605 million people over 60 now live now on the Earth. Since 1980, the number has increased twice and by 2050 should exceed 2 billion, which will represent one-fifth of the total population of the planet. At the same time, people over 80 will quadruple.

There are few systems in place, architecturally, to handle this new reality. There are systems that do exist: assisted living, nursing homes. But they are expensive and can be alienating. **How will the elderly be taken care of and supported by our societal structures? What can designers do to envision a solution to this situation?**

The challenge of this preliminary is to ask designers to envision a **new multigenerational housing typology**. The housing should be able to accommodate a family of 4 and an elderly couple, in ways that both foster interaction and protect individual privacy. Issues of light, air, privacy, dependence, independence, and relationships can all be addressed architecturally in your unit design. While each unit should prioritize a layout that develops from inside out, a focus on interiority, designs should emphasize opportunities for shared public space. The unit should be designed to be aggregated into stacked forms or relationships of multiple stories. Handicapped accessibility must be addressed through ramps or elevators.

The envisioned role of the elders within the family structure should manifest itself in the housing's design and layout. For instance, elders could be helpful in the raising of the next generation, and could be seen as the center of family life: the heart of the family. Yet the needs for privacy and independence may also be generative to your vision, as the relationships within a multigenerational unit can be complex. How can the complexity of these relationships be manifested and alleviated architecturally? The project should address the boundary between the "nuclear" family and the "multiple" family, and envision that boundary to be rich and meaningful.

PROGRAM

Prototypical 2000 sf unit to accommodate a family of six, including a nuclear family of four plus an elder couple.



All program pieces can be re-considered, re-imagined, re-invented, re-combined to solve the problem.

Entry	Bathrooms
Living	Playrooms
Dining	Garden
Kitchen	Exercise Space
Kitchen Table	Terrace
Hearth	Connection to Light and Air
Bedrooms	Potential Communal Spaces
Bathrooms	Shared Exterior Public Space

Consideration for how the unit stacks or creates a partiwall situation with 3 adjacent units to create a complex of 4 units.

This project is conceptually siteless as it should be able to be reproduced in multiple site conditions. Entry condition should be clearly marked.

Designs must be ADA compliant, and consider issues of health and mobility.

SITE CONSIDERATIONS

Although the challenge is siteless, designs should envision a contemporary urban context with issues related to living in the city. Each complex of units will have immediate street-front parking, as well as easily accessible public transit. Designs should be mindful of these two transportation options as they relate to imagined living narratives for each unit's inhabitants and the combination of multiple families within the overall complex.

RESEARCH REFERENCES & RESOURCES

World Health Organization

<http://www.who.int/>

Rand Corporation

Research on Population and Aging

<http://www.rand.org/topics/population-and-aging.html>

MacArthur Foundation

Research Network on an Aging Society

<http://www.macfound.org/networks/research-network-on-an-aging-society/>

Institute for Human Centered Design

<http://humancentereddesign.org/>

Housing an Aging Population: Are we prepared?

The Center for Housing Policy & The National Housing Conference

<http://www.nhc.org/media/files/AgingReport2012.pdf>

Mixing It Up with Elders:

An Interview with Byron Kuth and Liz Ranieri
ArchNewsNow

<http://www.archnewsnow.com/features/Feature374.htm>

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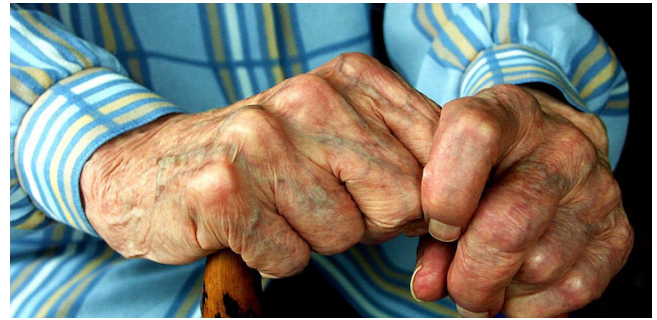
The world is getting much older...

WITHIN
TEN YEARS
THERE WILL BE
ONE BILLION
OLDER PEOPLE WORLDWIDE.



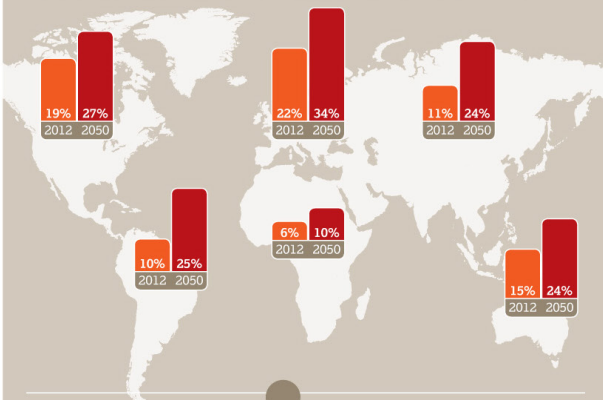
IN 2012,
810 MILLION
PEOPLE WERE AGED 60 OR OVER.
BY 2050,
THE NUMBER WILL REACH
TWO BILLION.

TWO PEOPLE
CELEBRATE THEIR SIXTIETH BIRTHDAY
EVERY SECOND
AN ANNUAL TOTAL OF ALMOST
58 MILLION SIXTIETH BIRTHDAYS.



Ageing is not just a developed world phenomenon...

% OF THE POPULATION 60 YEARS OR OVER



IN 2010-2015,
LIFE EXPECTANCY IS
78 YEARS
IN DEVELOPED REGIONS
68 YEARS
IN DEVELOPING REGIONS.



BY 2045-2050,
NEWBORNS
CAN EXPECT TO LIVE TO
83 YEARS
IN DEVELOPED REGIONS
74 YEARS
IN DEVELOPING REGIONS.

IN THE PAST DECADE,
THE NUMBER OF PEOPLE AGED
60 OR OVER HAS RISEN BY
178 MILLION
EQUIVALENT TO
NEARLY THE ENTIRE
POPULATION OF
PAKISTAN.



BY 2050 NEARLY
80%
OF THE WORLD'S
OLDER PEOPLE WILL
LIVE IN EMERGING
AND DEVELOPING
ECONOMIES.



EVALUATION CRITERIA

Submissions will be evaluated by the jury according to the following criteria:

CULTURE

Celebration of multi-generational culture as it relates to the environment, personal health, and the city's quality of life.

URBANISM

Development of an imaginative public and private realm that integrates general guidelines for accessibility.

REQUIREMENTS

Submissions should include two 24" x 36" vertical format boards featuring the following drawings, each of which should contain a graphic scale and a north arrow (where appropriate). Orient plans with north pointing generally upward on the board.

- Written explanation of design intentions (200 words maximum, brevity is encouraged, short descriptive captions may be used on drawings in addition to the main text).
- Floor plans and sections (1' = 1/8" scale) as necessary to explain the proposal.
- Diagrams: circulation and program configuration.
- At least two exterior renderings illustrating the aggregate of multiple units, and the major design elements of your concept. Where appropriate, show your imagined existing context.
- At least one interior perspective.
- Any other documentation that supports the proposal (for instance, photographs of physical models if used).

Boards must lay flat, nothing may project or be mounted to them beyond the thickness of a sheet of paper. The Rotch reserves the right to use any submitted material in publications or on websites.

HOW TO SUBMIT

To follow are the step-by-step instructions on submitting your proposal:

1. GRAPHIC SYMBOL

To ensure anonymity, each competitor must choose an abstract graphic symbol and place it:

- On the face of both printed boards.
- On the statement of sole authorship with the name of the competitor clearly printed, which must be placed in a sealed envelope and fastened to the back of one board.
- On the face of the sealed envelope mentioned above and securely fastened to the back of one board.

2. ELECTRONIC SUBMISSIONS

Email a digital copy of your boards no larger than 11" x 17" in PDF format or as two low-resolution 72 dpi JPEGs.

Due by 10:00 am on February 11, 2013 to abey@architects.org

Attachments/boards may be submitted in more than one email, but each email must be smaller than 15MB. You are welcome to use FTP services such as:
www.yousendit.com
www.sendspace.com
www.dropsend.com

3. BOARD SUBMISSIONS

The submitted boards must EXACTLY match digital submissions. Absolutely no edits will be permitted. Any projects with edited boards will be disqualified.

Due by 4:30 pm on February 11, 2013

Ship or drop off to:

The Rotch Scholarship
c/o Boston Society of Architects
290 Congress St. #200
Boston, MA 02210

NOTE TO COMPETITORS

The statement of sole authorship must be placed in the sealed envelope that is attached to the back of one of your boards. Your symbol must appear on the envelope and the face of your submission boards.

STATEMENT OF SOLE AUTHORSHIP

I hereby assure the Rotch Committee that I am the sole author of my submission for the 2013 Rotch Competition. I have not received criticism, suggestions, or help of any sort other than through the use of books and other published literature.

SIGNED: _____

PRINT NAME: _____

SYMBOL: