

# EXPLORING BIOMORPHIC AND GEOMETRIC FORMS IN 3D

## Ayala Museum, Makati City, Philippines

### August 8-13, 2017 | Lectures and Workshop

## BACKGROUND

The week-long program aims at promoting the traditional way of looking at design, through the exploration of universal design principles and their applications. As such, it seeks to introduce participants to traditional proportional systems (Sacred Geometry) and innovative design techniques that will enable participants to explore biomorphic and geometric forms in 3-D. Ultimately, it seeks to teach traditional design approaches that can easily be integrated in everyday design practices to create original and one-of-a-kind design outputs.



The program has two parts: The lecture and the 5-day workshop.

## LECTURES

### Lecture at Ayala Museum

August 8, 2017; Tuesday  
3:00-5:00 PM  
Ayala Museum Lobby  
100 participants



Teacher's & Student's Rate: 300 php  
Ayala Museum/AGC Rate: 400 php  
Early Bird Rate: 450 php  
Regular Rate: 500 php

Includes complimentary admission to the museum on the date of the lecture, and a lecture brief.

\*All rates are inclusive of VAT.

A one (1) hour primer and introduction to the 5-day master class. At the end of the lecture, participants must have understood the universal principles of traditional arts that enhances the appreciation of textiles and cultural heritage.



Sam Buckley at PSID 2015



Ayesha Gammet at FEU 2015



## WORKSHOP

### EXPLORING BIOMORPHIC AND GEOMETRIC FORMS IN 3D

August 8-13, 2017 | Tuesday-Sunday  
9 AM – 5PM

A 5-day in depth and hands on workshop that will help participants understand geometric forms as they appear in everyday things.

Includes refreshments, workshop kit composed of bespoke workbooks produced in PSTA, London, basic materials, and a certification of workshop completion to be issued by the Prince's School of Traditional Arts (PSTA).

**FEE: 35,000**

10% Discount for early bird (until July 15, 2017)

40% discount for teachers and students

20% for Ayala Museum members



#### About the workshop:

Nature is rich with inspiration for contemporary creators and designers. This inspirational workshop will explore universal principles and their design applications from the world's great traditions. In this week-long programme, participants will trace the essence of sacred traditions through time and space to the original beauty of the natural world.

In this workshop, we explore the micro and macrocosmic relationships found both in nature's organisation and the geometric patterns loved by traditional cultures.

In our exploration of the geometry of the sacred, proportional systems such as the golden mean will be explored through practical exercises and analysis of traditional architecture, craft objects, pure mathematics and the world of nature.

Participants will gain familiarity with geometric proportional grids, interpretations of these in indigenous patterning, and learn to produce their contemporary reinterpretations of traditional designs. It is hoped that through this intensive and inspiration workshop with expert tutors from the Prince's School of Traditional arts, practicing artists, designers and crafts people better understand how to integrate this approach in their everyday design practices

# 5-DAY MASTERCLASS SCHEDULE

## EXPLORING BIOMORPHIC AND GEOMETRIC FORMS IN 3D

August 8-13, 2017 | Tuesday-Sunday  
9 AM – 5PM

### DAY 1

**9:00 -11:00 am** Introduction and welcome to the workshop. Self-introduction of PSTA's team and participants. Slideshow and presentation to introduce the aims and objective of the week long course. Highlight and emphasis through imagery the underlining principles of geometry within nature and how these have been key to inspire artists and designers creating and seen in everyday objects.

**11:00 -11.30 am** Break

**11.30 am - 1:00 pm** Practical work. Participants will be taught how to use compasses and straight edge to construct a traditional sacred geometry, the fundamental principles of Root 3. Focusing on 6 fold geometry seen within the natural world micro to macrocosm-crystallography, the beehive, flowers, the molecular level and snowflakes.

**1:00 – 2:00 pm** Lunch

**2:00 – 5:00 pm** Continue with 2d geometry based on root 3.

**Aims and objects:** Understand the key principles of geometry within nature and learn how to create 2d geometric patterns from them. Understand geometry as a universal language and develop a sense of how geometry underpins the world's cultural traditions. Each participant will create 2d geometric patterns inspired the *sixness* within nature.

### DAY 2

**9:00 -1:00 pm** A 30 minute slideshow introduction to the day's session. Return to the fundamental principles of geometry and learn how the visual languages of geometry relate to the order of space, exploring patterns from root 2.

**2:00 -5:00 pm** Delve into Golden ratio, the most prevalent principle which forms the organic 3 dimensional world.

**Aims and objectives:** The participants will engage in understanding the laws and key principles within the order of space.

### DAY 3

**9:00 am – 1:00 pm** Introduction to moving from 2d to 3d. Starting with 2d geometry to create and complete a set of Platonic solids within nets. The students will be introduced to Platonic and Archimedean solids and using coloured sticks they will make their own individual platonic constructions. The students will develop and understand working in groups of 4 how to create a larger tetrahedron with their individual tetrahedrons.

**2:00 – 5:00 pm** Explore their structural properties through molecular structures and geodesic domes (Buckminster fuller) Working in groups the participants will explore the nested polyhedrons/ create a bamboo geodesic structure in the afternoon.

**Aims and Objectives:** To introduce the process of constructing and creating 2d geometry to 3d geometry.

### Day 4

**9:00 – 10:00 am** Patricia to deliver a talk on sacred weaving, the symbolism of warp and weft.

**10:00 -11:00 am** Daniel to introduce hexagonal weave, starting 2d and progressing into 3d by adding the element of 5 to bring into a 3d structure.

- 11:00 -11:30 am** Break
- 11:30 - 1:00 pm** Complete final woven 3d basket pieces, varying in sizes.
- 2:00 – 5:00 pm** Introduce the idea of group or self-directed projects.
- 4:00 – 5:00 pm** Brainstorm group projects or individual ideas and liaise with PSTA tutors their initial design concepts.

**Aims and Objectives:** Applying geometrical design principles to create group/ self-directed projects.

## **DAY 5**

The students will work in groups or on individual projects with guidance from the PSTA team. To create a final piece implementing a combination of design principles and an understanding of the geometry, implementing traditional knowledge within their design project. Each group or individual will present their project ideas and work to the group.

# ORGANIZERS



## AYALA MUSEUM Makati City, Philippines

Envisioned by the artist Fernando Zobel in the 1950s, the Ayala Museum was established in 1967 under the auspices of Ayala Foundation, Inc. as a museum of Philippine history and iconography. Today, it is one of the leading art and history museums in the Philippines, committed to disseminating and promoting awareness and appreciation of Philippine art and culture through both permanent and special exhibitions.



## THE PRINCE'S SCHOOL OF TRADITIONAL ARTS (PSTA) LONDON, UK

The PSTA was founded in 2004 by HRH The Prince of Wales as one of his core charities. It developed from the Visual Islamic and Traditional Arts Programme (VITA) that was established at The Royal College of Art in 1984. The School's courses combine the teaching of the practical skills of the traditional arts and crafts with an understanding of the philosophy inherent within them. The Prince's School offers practicing artists from around the world the opportunity to undertake research at the highest level with post-graduate degrees (MA, MPhil, PhD).

# DATES TO REMEMBER

## Contact Information

For more information on the workshop, slot reservation and purchase, contact

Ms. Tenten Mina  
Ms. Joy Peña

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Deadline of Early Bird Registration for  
Master Classes:  
**JULY 1, 2017 | FRIDAY**

Deadline of Regular Registration for the  
Entire Workshop:  
**AUGUST 1, 2017 | TUESDAY**