

Symmetry: Art and Science (formerly *Symmetry: Culture and Science*) is the journal of the International Society for the Interdisciplinary Study of Symmetry (ISIS-Symmetry). The views expressed are those of individual authors and not necessarily shared by the Society or the Editors.

Cuadernos de la Forma: es una publicación de la Sociedad de Estudios Morfológicos de la Argentina (SEMA). Las opiniones expresadas pertenecen a los autores y no son necesariamente compartidas por la Sociedad o los editores.

Regular Editors / Editores:

George Lugosi, R&D&I (Research Develop Invent), 2 Union Street, Melbourne-Kew, Victoria 3101, Australia; Fax: +61-3-9852-8344;

E-mail: g.lugosi@hfi.unimelb.edu.au and

Dénes Nagy, Institute for the Advancement of Research, ACU, Victoria Parade, Melbourne-Fitzroy, Victoria 3065, Australia;

E-mail: d.nagy@patrick.acu.edu.au

Editors of this special issue / Editores de este número especial:

Claudio Guerri, Gral. Lemos 270 (1427) Buenos Aires, Argentina.

E-mail: claudioguerri@fibertel.com.ar; Fax: +54-11-4553-7976

Patricia Muñoz

E-mail: pamun@fibertel.com.ar

Graphic Design / Diseño Gráfico

Adjustment and text correction / Adaptación y corrección de texto:

María Florencia Cid

Carolina Yedrasiak

Tatiana Estevez

Lucas Varela

Pablo de los Santos

Cover Design / Rediseño de tapa:

Pablo de los Santos

This volume is published for the Congress and Exhibition
Symmetry: Art and Science – 2007 – Form and Symmetry
Buenos Aires, Argentina.

© ISIS-Symmetry. No part of this publication may be reproduced without written permission from the Society.

ISSN 1447-607X (formerly ISSN 0865-4824)

Cover Images: William S. Huff (See page 6)

1989 (Budapest) Hungary, 1992 (Hiroshima) Japan, 1995 (Washington DC) USA,
1998 (Haifa) Israel, 2001 (Sydney) Australia, 2004 (Tihany) Hungary,
2007 (Buenos Aires) Argentina

SYMMETRY: ART AND SCIENCE

Journal of the International Society for the Interdisciplinary Study of Symmetry
2007 / 2 - 4

Regular Editors: George Lugosi and Denes Nagy
Editors of this special issue: Claudio Guerri and Patricia Muñoz

Book of Extended Abstracts

of the
7th Interdisciplinary Symmetry Congress and Exhibition of ISIS-Symmetry
and the
6th National and 3rd International Congress of SEMA

FORM AND SYMMETRY

11 to 17 de November 2007
Host Institution: Faculty of Architecture, Design and Urbanism
University of Buenos Aires
Buenos Aires, Argentina

CUADERNOS DE LA FORMA

Publicación de la Sociedad de Estudios Morfológicos de la Argentina –SEMA–
Año 11 - 2007 / 8
Editores de este Número Especial: Claudio Guerri y Patricia Muñoz

Libro de Resúmenes Extensos

del
6º Congreso Nacional y 3º Congreso Internacional de SEMA
y del
7º Congreso y Exhibición Interdisciplinario de la ISIS-Symmetry

FORMA Y SIMETRIA

11 al 17 de noviembre de 2007
Institución auspiciante: Facultad de Arquitectura, Diseño y Urbanismo
Universidad de Buenos Aires
Buenos Aires, Argentina

Autoridades de la FADU/UBA y de las Sociedades Organizadoras del Congreso

Autoridades / Authorities

Universidad de Buenos Aires

Rector: Dr. Rubén Hallú

Facultad de Arquitectura, Diseño y Urbanismo

Decano: Prof. Arq. Jaime Sorín

Vicedecano: Prof. Arq. Luis Bruno

Secretaría General:

Ariel Misuraca

Coordinación de Gabinete:

Fernando Schifani

Secretaría Académica:

Javier Fernández Castro

Secretaría de Extensión Universitaria:

Beatriz H. Pedro

Secretaría de Investigaciones:

Jorge Ramos

Secretaría de Relaciones Institucionales:

Cristina Fernández

Secretaría de Relaciones Internacionales:

Jorge Cortiñas

Secretaría de Posgrado:

Carlos Lebrero

Secretaría de Asuntos Estudiantiles:

Nicolás Nucifora

Secretaría de Acción Comunitaria:

Viviana Asrilant

Secretaría Operativa

Hugo Montorfano

Consejo Directivo:

Claustro de Profesores

Titulares:

Guillermo González Ruiz

Carlos Gil Casazza

Hernán Nóttoli

Horacio Wainhaus

Martín Marcos

Luis Bruno

Mario Sabugo

Mónica Pujol Romero

Suplentes:

Esteban Urdampilleta

César Pereyra

Carlos Trilnick

Liliana Calzon

Enrique Longinotti

Claudio F. Guerri

María del Valle Ledesma

Hernán Ceferino Araujo

Claustro de Graduados:

Titulares:

Marcelo Lorelli

Esteban Javier Rico

Ariel Pradelli

Daniel Silberfaden

Suplentes:

Damián Sanmiguel

Oswaldo Vicente Chirico

Cecilia Amstutz

Matías Gigli

Claustro de Estudiantes

Titulares:

Pablo de los Santos

Juan Busch

César Frigoli

Guillermo Gilli

Suplentes:

Luis Allocati

Daniela San Millán

Nadia Nicolau

Mónica López

International Society for Interdisciplinary Studies of Symmetry (ISIS-Symmetry)

President:

Denes Nagy (Hungary/Australia)

Executive Secretary: Slavik Jablan (Serbia and Montenegro)

Treasurer: George Lugosi (Australia)

Advisory Board:

Tohru Ogawa, Chair (Japan)

Beth Cardier (Australia/Czech Republic)

Mario Garavaglia (Argentina)

Ted Goranson (USA)

Claudio F. Guerri (Argentina)

Ritsuko Izuhara (Japan)

Slavik Jablan (Serbia and Montenegro)

Ami Korren (Israel)
George Lugosi (Australia)
Veronika Makarova (Russia/Canada)
Denes Nagy (Hungary/Australia)
Julie Tolmie (Australia/Canada)
Janusz Rebielak (Poland)

Sociedad de Estudios Morfológicos de la Argentina (SEMA)

Presidente: Claudio F. Guerri (UBA)
Presidentes Honorarios: Gastón Breyer (UBA) / Roberto Doberti (UBA)
Vicepresidente 1º: César Pereyra (UBA)
Vicepresidente 2º: Elena Nieto (UNNE)
Secretario: Enrique Amoroso (UM)
Prosecretario: Ricardo Conde (UBA)
Tesorera: Marta Ibarborde (UBA)
Protesorero: Ariel Misuraca (UBA)
Vocales Titulares:
Patricia Muñoz (UBA)
Horacio Wainhaus (UBA)
Carlos Prause (UNL)
Sergio Fernández (UNNE)
Vocales Suplentes:
Liliana D'Angeli (UBA)
Edith Strahman (UNC)
Jorge Pokropek (UM)
Silvia Ricco (UMDP)
Comisión revisora de cuentas:
Nina Enrich (UNLP)
Horacio Quiroga (UNSJ)
Clara Graciela Ben Altabef (UNT)

Comité Ejecutivo del Congreso

Claudio F. Guerri - Presidente Ejecutivo (UBA, Presidente SEMA)
Denes Nagy - Presidente Honorario (Presidente ISIS-Sym - Hungría)
Roberto Doberti - Presidente Honorario (UBA, ex Presidente SEMA)
Juan Enrique Amoroso (UM, Secretario General SEMA)
Roberto Bonifacio (UBA, SEMA)
Ricardo Conde (UBA, Prosecretario SEMA)
Liliana D'Angeli (UBA, SEMA)
Marta Ibarborde (UBA, Tesorera SEMA)
Slavik Jablan (Secretario ISIS-Sym - Ser-

bia y Montenegro)
George Lugosi (Tesorero ISIS-Sym - Australia)
Ariel Misuraca (UBA, Secretario General FADU, Protesorero SEMA)
Cesar Pereyra (UBA, Vicepresidente 1º SEMA)
Carlos Prause (UNL, SEMA)
Edith Strahman (UNC, SEMA)

Comité Científico

Dr. Gastón Breyer - Presidente del C.C. (UBA, ex Presidente SEMA)
Dra. M. Francisca, Blanco Martín (UVA)
Dr. Roberto Doberti - Presidente Honorario del Congreso (UBA, ex Presidente SEMA)
Dr. Mario Garavaglia (UNLP, ISIS-Sym)
Norberto Griffa (UNTREF)
Claudio F. Guerri - Presidente Ejecutivo del Congreso (UBA, Presidente SEMA)
William Huff (Emeritus SUNNY-Buffalo, Honorary Member ISIS-Sym - USA)
Dra. María del Valle Ledesma (UBA)
Dra. Patricia Muñoz (UBA, SEMA)
Denes Nagy - Presidente Honorario del Congreso (Presidente ISIS-Sym - Hungría)
César Naselli (MDPI-UCC)
Elena Nieto (UNNE, Vicepresidente 2º SEMA)
Dr. Tohru Ogawa (Chair Board ISIS-Sym - Japón)
Jorge Ramos (UBA, Secretario Investigación FADU)
Dra. Vera W. de Spinadel (UBA)
Horacio Wainhaus (UBA, SEMA)

Comité de Administración y Organización

Marta Ibarborde - Presidente del C. de A. (UBA, Tesorera SEMA)
Alejandro Abaca (UBA)
Nina Enrich (UNLP-SEMA)
Sergio Fernández (UNNE-SEMA)
George Lugosi (Tesorero ISIS-Sym - Australia)
Jorge Pokropek (UM-SEMA)
Silvia Ricco (UMDP-SEMA)

Cover Images: William S. Huff

Front Cover:

A sketch drawing of the study model of a new Color Solid.

(This third variant was devised after the abstract was edited for publication)

In modeling the Theory of Color, a nine by nine by nine, Nonné-Klee triangle is a better argument for the major color plane than Runge's circular disc. With a white pole at the top end and a black pole at the bottom end of the achromatic axis (these features in keeping with Runge), the new solid with a tilted triangular midsection resolves into a hexahedron of all triangles. The situation of all other possible colors extending beyond the major color triangle is better examined in the topological transformation of the hexahedron into its dual, a triangular prism: The white and black vertices convert into parallel faces—which effectively lays open the magnitudes of tints and shades. (See: “Color Solids Informed by Symmetry” by William S. Huff.).

Back Cover:

“Starburst,” by John Wingfelder in the Basic Design Studio of William S. Huff, University at Buffalo, Fall 1989.

Submitted in regard to a pedagogic assignment, the design involves aspects of symmetry and depth cues and was executed in reference to color theory. The three primaries are mixed through glazing—an aquarelle technique assiduously practiced by Klee: While the layer of one color steps back the layer of the adjoining color steps forward; thus the sum of many thin washes remains the same throughout. An even visual progression is achieved through the exponential increasing of layers (Weber-Fechner Law). There is a greying in some areas where all three primaries are layered over one another; and contrasts, due to different counts of layers of each primary, create edges that can be read as isometric projections of corners of cubes. Where there is a buildup of layers of only one color, great brilliances burst out.