

TABLE OF CONTENTS

Preface	vii
Acknowledgement	ix
Local Organizing Committee / Scientific Organizing Committee	x
List of Participants	xi
Impressions of the Conference	xii

GENERAL IDEAS

Keepers of Time and Guardians of Space—Some Basic Concepts of Astronomy and Power	3
<i>MICHAEL A. RAPPENGLÜCK</i>	
The Social Life of Celestial Bodies: The Sky in Cultural Perspective	13
<i>STANISLAW IWANISZEWSKI</i>	
Astral High-Fashion Clothing: Relations between Costumes and Astronomy	19
<i>MICHAEL A. RAPPENGLÜCK</i>	

NEOLITHIC CULTURES

Astronomy, Landscape and Power in Eastern Anatolia	31
<i>JUAN ANTONIO BELMONTE AND A. CÉSAR GONZÁLEZ GARCÍA</i>	
Prehistoric Sanctuaries in Daunia.....	37
<i>ELIO ANTONELLO, VITO F. POLCARO, ANNA M. TUNZI AND MARIANGELA LO ZUPONE</i>	
Archaeoastronomical World from Romania.....	43
<i>IHARKA SZÜCS-CSILLIK, ALEXANDRA COMȘA AND ZOIA MAXIM</i>	

MEGALITHIC CULTURES

Equinoctial Full Moon Models and Non-Gaussianity: Portuguese Dolmens as a Test Case	51
<i>FABIO SILVA</i>	
<i>Kreisgrabenanlagen</i> : Expressions of Power Linked to the Sky	57
<i>GEORG ZOTTI AND WOLFGANG NEUBAUER</i>	
Re-structuring the World of Scottish Megalithic Sites and Animating Astronomical Phenomena through 3D Computerisation	63
<i>DAVID FISHER</i>	
Recumbent Stone Circles: Theory Overview Based on Fieldwork Conducted at Three Sites	73
<i>LIZ HENTY</i>	

POWER OF CALENDAR AND CLOCKS

Calendars as Symbols of Power	81
<i>SONJA DRAXLER AND MAX E. LIPPITSCH</i>	
Astronomical Clocks – Representations of Power	87
<i>GUDRUN WOLFSCHMIDT</i>	

CHALCOLITHIC / BRONZE AGE / IRON AGE CULTURES

Luni-solar Symbolism in an Artefact from Bulgaria.....	95
<i>VESSELINA KOLEVA</i>	

Table of Contents

Astronomy, Religion and the Structure of Society in Prehistoric Finland	101
<i>MARIANNA RIDDERSTAD</i>	
Astronomy and the Power: The Singular Building of <i>Turó del Calvari</i> (Vilalba dels Arcs, Tarragona)	107
<i>MANUEL PÉREZ GUTIÉRREZ, DAVID BEA CASTAÑO, JORDI DILOLI FONS AND SAMUEL SARDÀ SEUMA</i>	
Precise Astronomical Measurements of Ancient Dacian Sites within the Pythagorean Mega-triangle Sarmizegetusa-Regia-Retezat-Parâng	113
<i>FRANZ KEREK AND FLORIN STANESCU</i>	
Orientation in the Landscape of Open Air Rock Art in the Mountains between the Alva and Ceira Rivers: The Podomorph Carvings	119
<i>FERNANDO PIMENTA, NUNO RIBEIRO, ANDREW SMITH AND LUÍS TIRAPICOS</i>	
Total Solar Eclipses Close to the Pleiades on the Nebra Disk and Swedish Rock-Carvings	125
<i>GÖRAN HENRIKSSON</i>	
Archaeoastronomical Analysis of the Karataevo Fortress Sanctuary on the Northern Black Sea Coast	131
<i>LARISA N. VODOLAZHSKAYA</i>	
EGYPT, MINOAN CULTURE	
Stellar and Solar Components in Ancient Egyptian Mythology and Royal Ideology	137
<i>ROLF KRAUSS</i>	
The Elite at Knossos as Custodians of the Calendar	143
<i>GÖRAN HENRIKSSON AND MARY BLOMBERG</i>	
Prince P. A. Putyatın was the Forerunner of Russian Archaeoastronomy	149
<i>N. DMITRIEVA</i>	
CULTURES IN EUROPE, ASIA, OCEANIA AND AFRICA	
The Celestial Engine at the Heart of Traditional Hawaiian Culture	155
<i>W. BRUCE MASSE</i>	
Cosmic Power: Themes of Astronomy and Power within the Film <i>Cosmic Africa</i>	163
<i>JARITA C. HOLBROOK</i>	
The Concept of Power and Cosmology: Manipulation of Cosmology by Spiritualists or Native Doctors (<i>Dibia</i>), a Case Study of the Igbo Society of Nigeria	167
<i>BARTH CHUKWUEZI</i>	
Some Aspects of European Moon Mythology	173
<i>MARE KÕIVA AND ANDRES KUPERJANOV</i>	
Stars of Power – Astronomical Objects on Ancient Princely Insignia	179
<i>MAX E. LIPPITSCH AND SONJA DRAXLER</i>	
CULTURES OF NORTH AMERICA, MESOAMERICA AND SOUTH AMERICA	
Astronomy and Power in Mesoamerica	185
<i>IVAN ŠPRAJC</i>	
Possible Mesoamerican Naked-Eye Observation of Sunspots – I: Evidence from the Tikal Ball Court Marker	193
<i>RICHARD R. ZITO</i>	

Calendric-Astronomical Orientation as an Expression of Power in Mesoamerica	197
<i>JESÚS GALINDO TREJO</i>	
Possible Mesoamerican Naked-Eye Observation of Sunspots – II: Evidence from the Codices	205
<i>RICHARD R. ZITO</i>	
Power, Danger and Liminality: Moon, Stars and Women among the Toba of Western Formosa (Gran Chaco, Argentina)	211
<i>CECILIA PAULA GÓMEZ</i>	
A Topology of Power: Sky and Social Space in the Argentinean Chaco.....	217
<i>ALEJANDRO MARTÍN LÓPEZ</i>	
ANTIQUITY	
Among the Circles: A Geometrical Analysis of the Teatro Marittimo in Villa Adriana.....	225
<i>MARZIA MONACO, SILVIA GAUDENZI AND MARCELLO RANIERI</i>	
MEDIEVAL TIME IN ORIENT AND OCCIDENT	
Astronomy and the State: Time, Space and Power in the Foundation of Baghdad.....	233
<i>NICHOLAS CAMPION</i>	
Astronomy and Politics: Three Case Studies on the Service of Astrology to Society	241
<i>S. MOHAMMAD MOZAFFARI</i>	
The <i>Dustūr al-munajjimīn</i> or Does a Sovereign Need Astronomy to Structure His Reign?	247
<i>PETRA G. SCHMIDL</i>	
The Orientation of Pre-Romanesque Churches in Spain: Asturias, a Case of Power Re-affirmation.....	255
<i>A. CÉSAR GONZÁLEZ GARCÍA, JUAN ANTONIO BELMONTE AND LOURDES COSTA FERRER</i>	
Astronomical Heritage in Bosnia and Herzegovina: Late Medieval Tombstones and Astral Motifs	261
<i>ZALKIDA HADŽIBEGOVIĆ</i>	
The Star of Magi: Transient Astronomical Events as Sources of Inspiration in Late Medieval Art.....	267
<i>M. INCERTI, F. BÒNOLI AND V. F. POLCARO</i>	
A Social History of Medieval Astronomy.....	273
<i>A. MARTOCCHIA AND V. F. POLCARO</i>	
ASTRONOMY AND POLITICS IN THE MODERN AGE	
Astronomy and Politicians	279
<i>MAGDA STAVINSCHI AND CÁTÁLIN MOSOIA</i>	
Comets in Political Caricatures: Examples from the 18th to 21st Century	283
<i>BARBARA RAPPENGLÜCK</i>	