**LIST OF CONTENTS OF *ROCK ART RESEARCH***

**FROM THE PRESENT TO MAY 1984**

##### Volume 41, Number 1, May 2024

 3 Elfriede Kaethe Bednarik (1945–2023), by R. G. Bednarik

 5 **Rock painting within southern Peru in the context of physicochemical analysis of pigments**

 Józef Szykulski, Beata Miazga and Jakub Wanot (Poland)

 28 **Categorising catfish, jewfish and eel motifs in Laura (Quinkan) rock art, Cape York Peninsula, Australia**

Noelene Cole, Christine Musgrave, Roseanne George, Lynley Wallis, and the Laura Indigenous Land and Sea Rangers (Australia)

41 **Wurranderra’s symbols: an exploration and contextualisation of the Thurk Petroglyph Site (Kingston-on-Murray) on the Murray River, South Australia**

Amy Roberts, Marc Fairhead, Craig Westell, Ian Moffat, Jarrad Kowlessar and the River Murray and Mallee Aboriginal Corporation (Australia)

 58 **A purported Pleistocene sand sculpture from South Africa**

Charles W. Helm, Andrew S. Carr, Hayley C. Cawthra, Paul D. Cowley, Jan C. De Vynck, Pieter-Jan Gräbe, Renée Rust, Willo Stear and Alan K. Whitfield (Canada, United Kingdom and South Africa)

74 **Stretching the surrogate: an initial test combining DStretch image enhancement with photogrammetry modelling at Bunjil’s Shelter and Gulgurn Manya, Australia**

 T. J. Keep, R. G. Gunn and J. Goodes (Australia)

 88 **Shamanism and brain illness in rock art production**

 Robert G. Bednarik (Australia)

108 **Brief Report**

108 Analysing the black pictograms of Takhte Chan, Pol-e Dokhtar, Iran, by Sara Sadeghi, Manijeh Hadian Dehkordi, Morteza Hessary and Saeed Rahimi (Iran)

112 ***RAR* Review**

112 Rediscover the ‘Earth’: an evolving interpretative approach of palaeoart study. Book review by Jin Anni and Chao Ge (China)

115 Recent rock art journal — Recent books of interest

116 Recent papers of interest

##### Volume 40, Number 2, November 2023

119 Editorial

121 **Image analysis and treatment for the detection of petroglyphs and their**

 **superimpositions: rediscovering rock art in the Balos ravine, Gran Canaria Island**

 Pedro Javier Sosa-Alonso (Spain)

131 **New rock art site complex in the Arauák River valley, southeastern Venezuela**

 José Miguel Pérez–Gómez and Roger Swidorowicz (Venezuela and U.S.A.)

145 **Preserving Australia’s cave art**

 Robert G. Bednarik (Australia)

159 **Seeing beyond pareidolia: implications for palaeoart**

 Derek Hodgson (United Kingdom)

 With *RAR* Comments by Ahmed Achrati, Jan B. Deręgowski, Livio and Patricia Dobrez,

 Ben Watson and George F. Steiner; with *RAR* Reply by the author

186 **Cupules in Cuba: a review**

 Yasmani Ceballos-Izquierdo, Johanset Orihuela, Luis Olmo Jas, Carlos R. Borges-Sellén,

 Alberto F. Arano-Ruiz, Jorge Garcell-Dominguez and Robert G. Bednarik

 (Cuba, U.S.A. and Australia)

205 **Future direction of rock art research: an Indian perspective**

 Giriraj Kumar (India)

212 **Brief Reports**

212 Evaluating the motifs and pigments of Mehrdad pictograms in Kuhdasht, Lorestan, Iran,

 by Sara Sadeghi, Ardeshir Javanmard Zadeh, Manijeh Hadian Dehkordi and Reza

 Rezaloo (Iran)

215 Multi-view 3D recording of Jiangjunya rock art, by Yin Jie, Wu Shuang, Zhang Kaiyue

 and Wang Tao (China and United Kingdom)

219 Cross-verification between microerosion analysis and archaeological inference: a case

 study of a dated stone menhir at Khonakhai, Xinjiang, northwest China, by Chao Ge,

 Jin Anni and Shalunhua (China)

224 ***RAR* Review**

224 Book reviews by Denise H. Smith and R. G. Bednarik

227 Recent rock art journal — Recent books of interest — Recent papers of interest

229 **Orientation**

229 Preminghana petroglyphs returned in Tasmania, by Peter C. Sims (Australia)

230 Letter to the Editor, by Jin Anni and Chao Ge (China) — Institutional subscriptions

231 The second issue of *Journal of Rock Art* published

##### Volume 40, Number 1, May 2023

 3 **Scientific research at the Hongshankou petroglyph site complex in the eastern Tianshan**

 **Range, northwest China**

 Jin Anni, Robert G. Bednarik, Ren Meng, Wang Jianxin and Chao Ge (China and Australia)

 13 **Discovery of a new genre of rock paintings at Luobiao Town, Sichuan Province, China**

 Shi Lanying, Zhang Haiwei, Li Man, Niu Xiaoxia, Cheng Hai and Tang Huisheng (China)

 19 **Ichnology in rock art science: examples from southern Africa**

 Charles W. Helm, Willo Stear, Hayley C. Cawthra, Jan C. De Vynck and Renee Rust (South Africa and

Canada)

 32 **Regional trends in rock art production across Andean foothill valleys of north-central Chile**

 Andrés Troncoso, Francisca Moya, Francisca Ivanovic, Paula Urzúa, Amalia Nuevo-Delaunay, Sebastián

Grasset and César Méndez (Chile and Spain)

 45 **Images on stone in Sharjah Emirate and reverse engineering technologies**

 Xosefina Otero, Manuel Santos-Estévez, Eisa Yousif and Mercedes Farjas Abadía (Spain and United Arab

Emirates)

 57 **Stranger than fiction: distinguishing between anthropogenic and non-anthropogenic rock markings**

 Robert G. Bednarik (Australia)

 70 **Birds, dream-flying, avian metaphors and rock art**

 Ahmed Achrati (U.S.A.)

 89 **Negotiating, interpreting and representing the natural world: cognitive aspects of indigenous Australian**

**Dreamings**

 Patricia Dobrez and Livio Dobrez (Australia)

102 **Brief Reports**

102 A new calibration coefficient for microerosion analysis secured in southeast China, by Jin Anni and Chao Ge

(China)

105 Anbangbang, Two Leg Rock and *Dendrobium affine*: Aboriginal painting on two rock surfaces in Arnhem

Land,by Michael Eastham (United Kingdom)

107 A new look at the rock art on the island of Gökçeada, northeast Aegean, by Burçin Erdoğu, Nejat Yücel,

Erkan Gürçal, Kerem Demir and Nazlı Ilgın Izlier (Turkey)

110 ***RAR* Review**

110 Book reviews by Robert B. Eckhardt and Maciej Henneberg, and R. G. Bednarik

114 Recent papers of interest

115 First issue of *Journal of Rock Art* published

##### 116 Synopses of articles published in *JORA*

##### Volume 39, Number 2, November 2022

127 Editorial

130 **Contextualisation of petroglyphs at Shatial Das, Upper Kohistan, Pakistan**

 Muhammad Zahir, Ijaz Khan, Feryal Ali Gauhar and M. Shahid Khan Khalil (Pakistan)

143 **The 2019 survey of petroglyphs in the Qinghai-Tibet Plateau, western China**

 Li Man, Lari Jiayangnima, Tang Huisheng, Li Yongxian and Robert G. Bednarik (China and Australia)

155 **Picturing Nayombolmi: the most prolific known rock art artist in the world**

 Joakim Goldhahn, Sally K. May and Paul S. C. Taçon (Australia)

168 **Boorpeck: its significance in Gariwerd rock art**

 R. G. Gunn, J. R. Goodes, L. C. Douglas, D. Griffin, B. Briggs and L. Walker (Australia)

182 **Variation and age of the Gran Mural rock paintings, Baja California Sur, Mexico**

 Alan Watchman, María de la Luz Gutiérrez and María Isabel Hernández Llosas (Australia, Mexico and

Argentina)

195 **The dating of rock art and bone by the uranium–thorium method**

 Robert G. Bednarik (Australia)

205 **Pre-Historic rock paintings in north-western Sicily (Italy): the Grotta dei Cavalli**

 Dario Seglie, Antonino Filippi, Enzo Giuseppe Munna and Piero Ricchiardi (Italy)

211 **Brief Reports**

211 Domesian petroglyphs at Khomeyn, Markazi Province, Iran, by Saeed Rahimi, Zeynab Khosravi and Karim

Hajizadeh Bastani (Iran)

213 Oxalate issues: comments on ‘Dating correlated microlayers in oxalate accretions from rock art shelters: new

archives of paleoenvironments and human activity’, by Maxime Aubert, Jillian Huntley and Alan Watchman (Australia)

215 The travertine hand and footprints at Qiusang, Tibet, by Robert G. Bednarik, Jin Anni and Chao Ge (Australia

and China)

219 ***RAR* Review**

219 Book reviews by R. G. Bednarik, Livio Dobrez and Patricia Dobrez, and George F. Steiner

234 Recent rock art journals

235 Recent books of interest

235 Recent papers of interest

237 **Orientation**

237 Letter to the Editor — IFRAO-24 cancelled — Letter to the Premier of Western Australia — Rock art science book translated — Institutional subscriptions

240 **IFRAO Report No. 63**

240 Fourth AURA Congress and IFRAO-2024 Congress cancelled

##### Volume 39, Number 1, May 2022

 3 **The impact of industrial pollution on the rock art of Murujuga, Western Australia**

 Benjamin W. Smith, John L. Black, Stéphane Hœrlé, Marie A. Ferland, Simon M. Diffey, Jolam T.

Neumann and Thorsten Geisler (Australia, France and Germany)

 15 **The Western influence on the study of Chinese rock art**

 Xu Feng (China)

1. **Is rock art science regional or universal? A discussion based on the development of the discipline in**

**China**

 Chao Ge (China)

 32 **Pleistocene rock art discovered in central Europe**

 Robert G. Bednarik (Australia)

 41 **Dating pre-Historic painted figures from the Serra da Capivara National Park, Piauí, Brazil**

Pierluigi Rosina, Sara Garcês, Hugo Gomes, George H. Nash, Niède Guidon, Thalison dos Santos, Cristiane Buco, Qinfeng Shao and Carmela Vaccaro (Portugal, Brazil, China and Italy)

 52 **Embodiment and fashionable colours in rock paintings of the Atacama Desert, northern Chile**

 Gloria Cabello, Marcela Sepúlveda and Bernardita Brancoli (Chile)

 69 **The newly discovered indigenous rock art from the Kinta Valley, west Malaysia**

 Chaw Yeh Saw and Hsiao Mei Goh (Malaysia and Australia)

 83 **The Bronze and Iron Age rock art of Altay Prefecture, Xinjiang: a synthesis**

 Rebecca O’Sullivan and Huiqiu Shao (China)

1. **A new set of rock engravings close to the Forêt de Fontainebleau’s Malmontagne style found in**

**France’s Yonne department**

 Richard Lebon (France)

104 **Flute playing in the rock art of the Klein Karoo and Cederberg, South Africa — a potential link to ancient sound**

 Renee Rust, Joshua Kumbani, Neil Rusch and Sarah Wurz (South Africa and Norway)

114 **Dating mud-wasp nests associated with rock art**

 Alan L. Watchman (Australia)

121 ***RAR* Review**

121 Book review by Ken Mulvaney

122 Recent rock art journals

123 Recent books of interest

123 Recent papers of interest

124 **IFRAO Report No. 63**

124 The Fourth AURA Congress and IFRAO-2024 Congress — First announcement — Call for Symposium Proposals

Volume 38, Number 2, November 2021

119 **Markings on the stones of Terceira Island, Azores — rock art of natural causes?**

 M. Teresa M. Azevêdo (Portugal)

131 **Pigs on stone: some rock art from the eastern part of al-Ḥarrah, north-eastern Jordanian Badia**

 Ali Al-Manaser, Firas Alsoleihat and Hind Mohammad Turki Al Turki (Jordan and Saudi Arabia)

137 **Special Collection: ROCK ART AND ETHNOGRAPHY (Part 2)**

 **Guest Editors Claire Smith, Sally K. May and Ines Domingo**

138 **Rock art. regionality and ethnography: variation in southern African rock art**

 Ghilraen Laue (South Africa)

152 **Celestial horses of Dul-dul at: petroglyphs as the site of transformation and interaction in the**

**Kyrgyz Fergana Valley**

 Sylwia Pietrowiak (Poland)

169 **Rock art animism in Siberian taiga: contemporary rituality and materiality of Evenki hunters**

**and reindeer herders**

 Donatas Brandišauskas (Lithuania)

183 **Agency, affect and archaeologists: transforming place with rock art in Auwim, Upper Karawari-**

**Arafundi region, East Sepik, Papua New Guinea**

 Roxanne Tsang, Liam M. Brady, Sebastien Katuk, Paul S. C. Taçon, François-Xavier Ricaut and

Matthew G. Leavesley (Australia, Papua New Guinea and France)

195 **Pastoral place-making: rock art as a social agent in colonial encounters**

 Claire Smith (Australia)

211 **Quilp’s horse: rock art and artist life-biography in western Arnhem Land, Australia**

 Sally K. May, Joakim Goldhahn, Laura Rademaker, Graham Badari and Paul S. C. Taçon

(Australia)

222 ***RAR* Debate**

222 The ‘buffaroo’: not necessarily a ‘first sight’ depiction, by Darrell Lewis (Australia)

225 Another buffaroo, by Olga Gostin (Australia)

225 Broadening our understanding beyond the ‘Buffaroo’, by Sally K. May, Inés Domingo Sanz, Joakim

Goldhahn, Duncan Wright and Gabriel Maralngurra (Australia and Spain)

227 **Brief Reports**

227 New petroglyph sites in Hawraman, Kurdistan Province of western Iran, by Amir Saed Mucheshi

and Keyvan Rostampour (Iran)

229 Lt George Grey’s ‘script’: journal, plate and painting, by Michael P. Rainsbury (U.K.)

232 ***RAR* Review**

232 Book review by Michael Eastham

233 Recent rock art journals

233 Recent books of interest

233 **Orientation**

233 An obituary and memorial of the first Indigenous rock art researcher in Brazil: Prof. Poani Higino

Tuyuka, killed by Covid-19 and by the Brazilian government, by Raoni Valle (Brazil)

Volume 38, Number 1, May 2021

 3 **The 2018 expedition to Anshan cupule sites, northeast China**

 Jin Anni and Chao Ge (China)

 10 **Large geometric patterns from the Middle Stone Age in aeolianites on the Cape south coast,**

**South Africa**

 Charles W. Helm, Hayley C. Cawthra, Jan C. De Vynck, Carina J. Z. Helm, Renee Rust and Willo

Stear (South Africa)

 23 **Change of mindset: the need for developing scientific approaches to rock art studies**

 Giriraj Kumar (India)

 31 **Special Collection: ROCK ART AND ETHNOGRAPHY (Part 1)**

 **Guest Editors Claire Smith, Sally K. May and Ines Domingo**

 32 **Beyond the shelter: the cultural context of Nawarla Gabarnmang, Arnhem Land, northern**

**Australia**

 R. G. Gunn, R. L. Whear, M. Katherine and L. C. Douglas (Australia)

 48 **Finding fibre in the rock art and ethnography of western Arnhem Land, northern Australia**

 Emily Miller (Australia)

 59 **“Our dad’s painting is hiding, in secret place”: reverberations of a rock painting episode in**

**Kakadu National Park, Australia**

 Joakim Goldhahn, Linda Biyalwanga, Sally K. May, Julie Blawgur, Paul S. C. Taçon, Joanne

Sullivan, Iain G. Johnston and Jeffrey Lee (Australia)

 70 **Ethnographic interpretation of rock art through rock inscriptions**

 Robert G. Bednarik (Australia)

 84 **Embodied knowledge and deep presence: ethnography and rock art places in Yanyuwa Country**

 John Bradley, Amanda Kearney and Liam M. Brady (Australia)

 95 **Brief Report**

 95 Bauki: rock art at Azna, Luristan Province, western Iran, by Saeed Rahimi, Sara Sadeghi, Behrooz

Afkhami and Hamid Reza Ghorbani (Iran)

 97 ***RAR* Review**

 97 Book review by R. G. Bednarik

 97 Recent rock art journals

 98 Recent books of interest

 99 Recent papers of interest

 101 **Orientation**

 101 **Bibliography of rock art dating: 2012 – 2020**

 Leigh Marymor and Marvin W. Rowe (U.S.A.)

Volume 37, Number 2, November 2020

123 **Biographies in stone: Colonial rock art in northern Uruguay**

 Leonel Cabrera Pérez and Primitiva Bueno Ramírez (Uruguay and Spain)

137 **Understanding the perception and appropriation of space in Palaeolithic decorated caves:**

**new methods and tools, with the examples of Cussac and Lascaux caves**

Armance Jouteau, Valérie Feruglio, Delphine Lacanette, Samuel Carré, Nicolas Noé and

Jacques Jaubert (France)

155 **On the relationship between the Cangyuan rock art in Yunnan, China, and the Pha Taem**

**rock art in Laos**

 Xiao Bo (China)

167 **A complex rock art object in the Ukrainian steppe**

Simon Radchenko, Nadezhda Kotova, Dmytro Nykonenko, Viktor Dzhos, Anatoliy Volkov,

Oleg Tuboltsev and Dmytro Kiosak (Ukraine and Italy)

184 **Rock art relatedness and circulation paths in northeast Patagonia, Argentina**

 Natalia Carden, Florencia Borella and Marcelo Cardillo (Argentina)

204 **The Buffaroo: a ‘first-sight’ depiction of introduced buffalo in the rock art of western**

**Arnhem Land, Australia**

 Sally K. May, Duncan Wright, Inés Domingo Sanz, Joakim Goldhahn and Gabriel Maralngurra

(Australia, Spain and Sweden)

217 **The roles of tribology in palaeoart study**

 Robert G. Bednarik (Australia)

228 **Brief Reports**

228 Newly discovered petroglyphs in Kyzyl Dara gorge, western Tian Shan, Uzbekistan; by M.

Leloch, M. Kot, K. Szymczak, M. M. Khujanazarov and A. N. Kholmatov (Poland and Uzbekistan)

231 Petroglyphs at Koh Elias and Chāh Langi in Isfahan, central Iran; by Abbas Ali Ahmadi (Iran)

233 Bānarwāna rockshelter: new-found rock art in Kurdistan province, western Iran; by Amir Saed Mucheshi and Seyed Morteza Rahmati (Iran)

235 Kimberley critters: objects, lines and ‘animal associates’ in Gwion period rock art; by

Michael P. Rainsbury (United Kingdom)

238 Orientating the IFRAO Standard Scale; by Darrell Lewis (Australia)

239 *RAR* Review: Recent rock art journals

240 **IFRAO Report No. 62**

240 New members of IFRAO

Volume 37, Number 1, May 2020

 3 John ‘Jack’ Henry Steinbring (1929–2019), by Robert G. Bednarik

 5 **Discovery of new type of cave rock paintings in Guangxi Zhuang Autonomous Region, China**

 Li Man, Shi Lanying, Wu Xiaohua and Tang Huisheng (China)

 19 **Rockshelter development on the Arnhem Land plateau (Australia) and its implications for rock art**

**research**

 R. G. Gunn, L. C. Douglas and R. L. Whear (Australia)

35 **New painted rock art sites in Alor Island, eastern Indonesia, support a diversity of artistic traditions in the Late Holocene**

Pratiwi Yuwono, Mahirta, Sue O’Connor, Shimona Kealy, Adam Black and Stuart Hawkins (Indonesia and Australia)

 46 **Review of Tibetan rock art research**

 Tang Longhao (China)

 53 **New evidence for a Bronze Age date of chariot depictions in the Eurasian steppe**

 Gino Caspari, Timur Sadykov, Jegor Blochin, Matthias Bolliger and Sönke Szidat (Australia, Switzerland

and Russia)

 59 **Mobiliary art of Pampacolca, Peru: a palaeoart unique in the world**

 Jesus E. Cabrera (U.S.A.)

 67 **The 2017 rock art mission in Hubei Province, China**

Tang Huisheng, Jin Anni, Li Man, Fan Zhiyan, Liu Weipeng, Giriraj Kumar and Robert G. Bednarik (China, India and Australia)

 74 **The 2018 and 2019 rock art expeditions to Lianyungang, east China**

 Jin Anni and Chao Ge (China)

 82 **Rock art and rock climbing: an escalating conflict**

 R. G. Gunn, J. R. Goodes, A. Thorn, C. Carlyle and L. C. Douglas (Australia)

 95 **Brief Reports**

 95 Drawing a line in the sand, by Charles W. Helm, Hayley C. Cawthra, Jan C. De Vynck, Carina J. Z. Helm,

Renée Rust and Willo Stear (South Africa and Canada)

99 Preliminary report of newly rediscovered rock art site Damirgaya, southern Georgia, by Levan Losaberidze and Mariam Eloshvili (Georgia)

102 Antiquity of Iran’s rock art: pre-History or Historic-Islamic time? By Sirvan Mohammadi Ghasrian (Iran)

106 The petroglyphs of Kal Husseina in Nehbandān, eastern Iran, by Hamid Reza Ghorbani and Sara Sadeghi (Iran)

109 ***RAR*** **Review**

109 Book reviews by Ahmed Achrati, R. G. Gunn, R. G. Bednarik and H. Denise Smith

116 Recent rock art journals

117 Recent books of interest

117 Recent papers of interest

119 **Orientation**

119 ICRAD invites data deposition, by Robert G. Bednarik

120 A new transdisciplinary journal

Volume 36, Number 2, November 2019

131 **Scribbling the walls: children’s contribution to the rock art of Peruaçu Valley, Minas Gerais, Brazil**

 Tania Andrade Lima, Lilian Panachuk and Daniel Cruz (Brazil)

148 **Scientific study of the cupules in Daraki-Chattan Cave and nearby**

 Giriraj Kumar, Ram Krishna and Robert G. Bednarik (India and Australia)

157 **The 2018 expedition to Fangcheng cupule sites in central China**

 Jin Anni and Chao Ge (China)

164 **A multi-analytical study of rock paintings from Leandro 5 megalithic barrows, north-western**

**Portugal**

 César Oliveira, Ana M. S. Bettencourt, Luís Gonçalves, M. Isabel Caetano Alves, André T. Ribeiro,

Aléssia Barbosa, Maria Martín-Seijo, Jorge Ribeiro, Jorge Guedes and Cristina Delerue-Matos (Portugal and Spain)

173 **Rock art, mining and Indigenous well-being in the Lower Hunter Valley: the outlook from Baiame**

**Cave**

 Jillian Huntley (Australia)

182 **In search of the ATR-FTIR signatures of experimentally mixed ingredients presumably used in pre-Historic rock art**

 Sara Garcês, Hugo Gomes, Lydia Haddab, Pedro Cura and Pierluigi Rosina (Portugal and France)

189 **The importance of conserving rock art: a conversation at the Jibbon petroglyph site, Royal National**

**Park, Australia**

 Shayne Williams, Tanya Koeneman and Paul S. C. Taçon (Australia)

199 **‘This is my father’s painting’: a first-hand account of the creation of the most iconic rock art in Kakadu National Park**

 Sally K. May, Josie Gumbuwa Maralngurra, Iain G. Johnston, Joakim Goldhahn, Jeffrey Lee, Gabrielle

O’Loughlin, Kadeem May, Christine Ngalbarndidj Nabobbob, Murray Garde and Paul S. C. Taçon (Australia and Sweden)

214 **Identification of organic binders in pre-Historic pigments through multiproxy archaeometric analyses from the Toca do Paraguaio and Boqueirão da Pedra Furada shelters (Serra da Capivara National Park, Piauí, Brazil)**

Hugo Gomes, Pierluigi Rosina, Niéde Guidon, Cristiane Buco, Thalison dos Santos, Lisa Volpe, Carmela Vaccaro, George H. Nash and Sara Garcês (Portugal, Brazil and Italy)

222 **Brief Reports**

222 Results from the first phase of rock art survey in the Swaga Swaga Game Reserve (Tanzania) by Maciej Grzelczyk (Poland)

224 Palaeoart microtopography, by Jesus E. Cabrera (U.S.A.)

227 Natural or artificial: Fujian rock markings, by Robert G. Bednarik (Australia)

230 Niah cupules discovered in 2012 and 2014 are subject of ongoing research: reply to Zhang, by Paul S. C. Taçon, Mohammad Sherman Sauffi, Ipoi Datan and Darren Curnoe (Australia and Indonesia)

232 Rock paintings and dendroglyphs: Aeneas Gunn in north-west Australia, by Michael P. Rainsbury (United Kingdom)

236 ***RAR*** **Review**

236 Book reviews by Duncan Caldwell, Giriraj Kumar, Jin Anni, Natalie R. Franklin and Michael Eastham

244 Recent rock art journals

245 Recent books of interest

246 Recent papers of interest

247 **IFRAO Report No. 60**

247 New members of IFRAO — Public statement by the Brazilian Rock Art Association

248 Addendum

Volume 36, Number 1, May 2019

 3 **Editorial:** Clarifying editorial policies —The peer review system

 5 **Connecting to the ancestors: why rock art is important for Indigenous Australians and their well-being**

Paul S. C. Taçon (Australia)

 15 **Journeys in Stone Age rock art and its research history in northernmost Europe**

Jan Magne Gjerde (Norway)

 29 **The Green River bighorn sheep horned headdress, San Rafael Swell, Utah**

Alan P. Garfinkel, Tim Riley, Renee Barlow, Chester King, Alexander Rogers, Robert Yohe II, Paul Goldsmith and Marissa Molinar (U.S.A.)

 43 **Advances in microerosion analysis**

Robert G. Bednarik (Australia)

 49 **Australian Rock Art Bibliography extracted from the Rock Art Studies Bibliographic Database for the years 1841 to 2018 — part 2**

Leigh Marymor (U.S.A.)

 94 **Ancient ‘sanctuaries’ of west Transbaikalia, Siberia**

V. I. Tashak and Yu. E. Antonova (Russia)

108 **Brief Reports**

108 Nargeseh: newly found rock art in Lorestan Province, western Iran, by Mohamad Bahrami and Mousa Sabzi (Iran)

110 An occurrence of appliqué in Wardaman rock art, by R. G. Gunn, D. M. Lee and L. C. Douglas (Australia)

113 Cupules discovered in Niah Cave, Sarawak, Malaysia, by Zhang Jiaxin (China)

115 About the discovery of Al Jawf ‘camel figures’ in Saudi Arabia, by Majeed Khan (Saudi Arabia)

117 ***RAR*** **Review**

117 Book reviews by Patricia A. Helvenston, David M. Welch and Fritz E. G. Hardtke

122 Recent rock art journals

123 Recent books of interest — Recent papers of interest

124 **IFRAO Report No. 60**

124 Minutes of the 2018 IFRAO Business Meeting

125 Report of the 20th International Rock Art Congress, IFRAO2018, ‘Standing on the Shoulders of Giants’, by Angelo E. Fossati

128 Regional chapter of the Peruvian Rock Art Association (APAR) established in Cusco

##### Volume 35, Number 2, November 2018

123 **What is anthropogenic? On the cultural aetiology of geo-situated visual imagery in Indigenous Amazonia**

Raoni Valle, Gori Tumi Echevarría-López, Poani Higino Tenório Tuyuka and Jairo Saw Munduruku (Brazil and Peru)

145 **Eschewing bear tracks: fallacies, figure-stones and Fontmaure**

 Richard Wilson (United Kingdom)

With *RAR* Comments by James Harrod, Derek Hodgson, Ben Watson, Matthijs Vos and Robert G. Bednarik; with *RAR* Reply by the author

180 **The rock art of Dahaisi cave, Soqotra, Yemen**

 Julian Jansen van Rensburg (Germany)

188 **Australian Rock Art Bibliography extracted from the Rock Art Studies Bibliographic Database for the years 1841 to 2018 — part 1**

 Leigh Marymor (U.S.A.)

249 **Brief Reports**

249 Newly discovered petroglyphs near Chamchang, Chahar Mahall va Bakhtiari, Iran, by Mahmood Heydarian and Alireza Khosrowzadeh (Iran)

251 Rock art site of Nakhlestān in Nehbandān, eastern central Iran, by Hamid Reza Ghorbani and Mahmood Heydarian (Iran)

253 Token exchange and beads: the problem of reliable language, by Mathias Aeschlimann (Switzerland)

254 Why not leave intangible aspects of Fennoscandian Stone Age hunters’ rock art alone? By Otto Blehr (Sweden)

##### Volume 35, Number 1, May 2018

 3 **The complexity of Arnhem Land rock art complexes**

 R. G. Gunn, L. C. Douglas and R. L. Whear (Australia)

 25 **The 2015 rock art missions in China**

Tang Huisheng, Giriraj Kumar, Jin Anni, Wu Jiacai, Liu Wuyi and Robert G. Bednarik (China, India and Australia)

 35 **Continuity in the rock art tradition of the Siberian lower Amur basin**

 Irina A. Ponomareva (Russia)

 47 **A new recording and interpretation of the rock art of Angono, Rizal, Philippines**

 Andrea Jalandoni and Paul S. C. Taçon (Australia)

 62 **The cliff paintings of Pha Taem, Luang Prabang, Lao PDR**

 Noel Hidalgo Tan (Thailand)

 79 **Unusual painted anthropomorph in Lembata Island extends our understanding of rock art diversity in Indonesia**

Sue O’Connor, Mahirta, Shimona Kealy, Julien Louys, Hendri A. F. Kaharudin, Antony Lebuan and Stuart Hawkins (Australia and Indonesia)

 85 **Direct dating of petroglyphs in Rio Grande do Norte, Brazil**

Valdeci Santos Junior, Raoni Valle, Henri Lavalle, Daline Lima de Oliveira and Robert G. Bednarik (Brazil and Australia)

 98 **Brief Reports**

 98 The ‘Ice Age art of Britain’ examined; by Richard Wilson

102 Rock art puzzle? Variation on a line; by Jan B. Deręgowski

103 Qorveh rock art in western Iran; by Jamal Lahafian and Ali Behnia

105 Two artefacts with cupules from Early Pleistocene terraces of the Rhine, Germany; by Christian Humburg

107 Artefacts and palaeoart: a reply to Humburg; by R. G. Bednarik

109 ***RAR* Review**

109 Book review by Giriraj Kumar

109 Recent rock art journals

110 Recent books of interest

111 Recent papers of interest

112 **Orientation**

112 The Second International Rock Art and Ethnography Conference; by Robert G. Bednarik

113 The First National Meeting on Moroccan Rock Art; by Mohamed Abioui, Lhassan M’Barki, Mohammed Benssaou and Mohamed Dades

115 The First Saudi Archaeology Convention; by Robert G. Bednarik

116 Pampacolca Gold Medal awarded

117 Forthcoming events — Early issues of *RAR* — Back issues

118 **IFRAO Report No. 59**

118 List of Business Meetings of IFRAO; compiled by Ludwig Jaffe

##### Volume 34, Number 2, November 2017

123 Editorial: The World Heritage List and rock art — Solving the Dampier controversy

130 **Inadequacies of research used to monitor change to rock art and regulate industry on Murujuga (‘Burrup Peninsula’), Australia**

 John L. Black, Ilona Box and Simon Diffey (Australia)

149 **From tracks to gesture-derived inscription: an Australian genealogy for ‘tracks and lines’ petroglyphs**

 Patricia Dobrez (Australia)

169 **Pigment decoration of Palaeolithic anthropomorphous figurines from Siberia**

 L. V. Lbova and P. V. Volkov (Russia)

179 **New rock art complex in Saudi Arabia**

 Robert G. Bednarik (Australia) and Majeed Khan (Saudi Arabia)

189 **Bunyip, Bunjil and mother-in-law avoidance: new insights into the interpretation of Bunjils Shelter, Victoria, Australia**

 Ian D. Clark (Australia)

193 **Methods, Morelli, rock art, art history: the Morellian method and its potential in rock art research**

 R. G. (ben) Gunn and Susan Lowish (Australia)

206 ***RAR* Debate**

206 Bednarik’s ‘Rock art and pareidolia’: role of psychological biases; by Derek Hodgson (United Kingdom)

206 Belated cognitive dissonance; by Robert G. Bednarik (Australia)

208 **Brief Reports**

208 Rock art in Poland: contribution to discussion; by Maciej Grzelczyk, Krzysztof Rak and Michał Jakubczak (Poland)

211 Rock art watercolours: the Kimberley paintings of Hill and d’Emo; by Michael P. Rainsbury (United Kingdom)

215 Creating a digital rubbing from a 3D model of petroglyphs; by Robert Mark (U.S.A.)

218 ***RAR* Review**

218 Book review by Robert G. Bednarik

219 Recent rock art journals

220 Recent books of interest

220 Recent papers of interest

221 **Orientation**

221 IMPART research project symposium, Mitzpe Ramon, Israel, 20 December 2016; by Joshua Schmidt (Israel)

222 Letter to the Australian Heritage Council; by R. G. Bednarik

223 Pavel Červíček (1942–2015); by Lenka Varadzinová and B. Vachala (Czech Republic)

224 Rock Art Preservation Fund

225 Invitation to publish in *Arts* — Back issues — Electronic format of *RAR*

226 Thanks to *RAR* referees

229 **IFRAO Report No. 58**

229 20th IFRAO Congress, Italy 2018, Call for Papers

240 Rock art books

Volume 34, Number 1, May 2017

 3 **A report on the petroglyphs at Beeshoek near Postmasburg in central South Africa**

 Peter B. Beaumont (South Africa)

9 **Beyond individual pleasure and rituality: social aspects of the musical bow in southern Africa’s rock art**

 Oliver Vogels and Tilman Lenssen-Erz (Germany)

 25 ***Quilcas* or rock art at the historic sanctuary of Machupicchu, Cusco, Peru: discovery and perspectives**

 Fernando Astete, Gori-Tumi Echevarría López and José Bastante Abuhadba (Peru)

 40 **The 2014 microerosion dating project in China**

Tang Huisheng, Giriraj Kumar, Liu Wuyi, Xiao Bo, Yang Huiling, Zhang Jiaxin, Lu Xiao Hong, Yue Jianhua, Li Yingnian, Gao Wei and Robert G. Bednarik (China, India and Australia)

 55 **Rock art of the Esperance region and its place in the Noongar traditions of south-west**

**Western Australia**

 R. G. Gunn, M. B. Mitchell and R. E Webb (Australia)

 82 **Megafauna identification for dummies: Arnhem Land and Kimberley ‘megafauna’ paintings**

 Darrell Lewis (Australia)

100 **The pictograms of Agh Dash, Zanjan, north-western Iran**

 Abolfazl Aali (Iran)

106 **Brief Reports**

106 Perspective on perspective in Palaeolithic art; by Jan B. Deręgowski

107 Bichoun: newfound rock art at Boroujerd, Lorestan Province, western Iran; by Mousa Sabzi and Esmail Hemati Azandaryani

110 ***RAR* Review**

110 Recent rock art journals

111 Recent books of interest

112 Recent papers of interest

113 **Orientation**

113 Developing ICRAD; by Robert G. Bednarik

116 Call for support (ICRAD)

117 **IFRAO Report No. 57**

117 Second International Rock Art and Ethnography Conference (Cusco, Peru)

119 Is there palaeoart before modern humans? (Turin, Italy)

119 Standing on the shoulders of giants — IFRAO Congress 2018 (Valcamonica, Italy)

120 New members of IFRAO

Volume 33, Number 2, November 2016

127 **3D documentation and use of DStretch for two new sites with post-Palaeolithic rock art in Sierra**

**Morena, Spain**

 Francisco José López Fraile, Laura María Gómez García and Alfonso Caballero Klink (Spain)

143 **Theoretical approaches to rock art studies**

Livio Dobrez (Australia); with *RAR* Comments by Tilman Lenssen-Erz, Polly Schaafsma, Derek Hodgson and Susan Lowish; with *RAR* Reply by the author.

167 **Rock art and pareidolia**

 Robert G. Bednarik (Australia)

182 **Re-examining pictograms in the caves of Cagayan valley, Philippines**

 Marie Grace Pamela G. Faylona, Caroline Marie Q. Lising and Eusebio Z. Dizon (Philippines)

193 **Ritual, ceremony and symbolism of archaic bighorn hunters of the eastern Mojave Desert: Newberry Cave, California**

 Alan P. Garfinkel, Donald Austin, Adella Schroth, Paul Goldsmith and Ernest H. Siva (U.S.A.)

209 **3D in the cave: hey young deer, why the long face (and no tail)?**

 Gianpiero di Maida (Germany)

219 **Safaitic inscriptions and possible hunting scenes from the north-eastern Bādiya, Jordan**

 Mahdi Alzoubi, Sultan Al-Maani and Hussein Al-Qudrah (Jordan)

228 Forthcoming events

229 **Brief Reports**

229 Possible artistico-political ramifications of Neolithic and later cultural changes in human subsistence and settlement; by Jason Randall Thompson

232 A rare ‘Wanjina’ cloud?; by Darrell Lewis

233 Cave pictograms in the southern Zagros Mountains, Fars, Iran; by Majid Mansouri and Kamal Lotfinasab

236 Enhancing faint pictograms in the field; by Jon Harman

238 Report on the UNESCO conference on rock art, Ulaanbaatar, Mongolia, 30th and 31st May 2016; by George Nash

240 ***RAR* Review**

240 Book review by Frederick E. Hardtke

242 Book review by Robert G. Bednarik

243 Recent rock art journals

244 Recent books of interest

245 Recent papers of interest

246 **IFRAO Report No. 56**

246 18th International Rock Art Conference IFRAO 2015: ‘Symbols in the landscape: rock art and its

context’; by Hipólito Collado Giraldo and José Julio García Arranz

Volume 33, Number 1, May 2016

 3 **Microerosion dating of Xianju petroglyphs, Zhejiang Province, China**

 Jin Anni, Zhang Jiaxing, Xiao Bo and Tang Huisheng (China)

 8 **Battle and hunting scenes in Turkic rock art of the early Middle Ages in Altai**

 Nikita Konstantinov, Vasilii Soenov and Dimitry Cheremisin (Russia)

19 **Naturalistic animals and hand stencils in the rock art of Xinjiang Uyghur Autonomous Region, northwest China**

 Paul S. C. Taçon, Tang Huisheng and Maxime Aubert (Australia and China)

32 **Hand stencils with and without narrowed fingers at two new rock art sites in Sulawesi, Indonesia**

Adhi Agus Oktaviana, David Bulbeck, Sue O’Connor, Budianto Hakim, Suryatman, Unggul Prasetyo Wibowo, Emma St Pierre and Fakhri (Indonesia and Australia)

 49 **Forensic science of cupules**

 Robert G. Bednarik (Australia)

 65 **The petroglyphs of Dasht-e-Morghāb** **in the Fars Province of Iran**

 Ebrahim Karimi, Ali Taghva and Farhad Zarei Kurdshuli (Canada and Iran)

 73 **Writing memento or shamanism? Two different interpretations of Iran’s rock art**

 Sirvan Mohammadi Ghasrian (Iran)

 79 **Rock art in Portugal’s border area**

 João Carlos Caninas, Hugo Pires, Francisco Henriques and Mário Chambino (Portugal)

 89 **Strange grooves in the Pennines, United Kingdom**

 David Shepherd and Frank Jolley (United Kingdom)

 98 **Brief Reports**

 98 A newly discovered projectile point image at the Hensler Petroglyph Site; by Jack Steinbring

 99 Forgotten images: Charles Price Conigrave and the Kimberley Exploring Expedition of 1911; by Michael P. Rainsbury

102 Free image-enhancement apps for iPad (LabStretch) and iPhone (LabStretch2); by Robert Mark and Evelyn Billo

104 ***RAR* Review**

104 Book review by Ahmed Achrati

108 Book review by Anne Solomon

108 Recent rock art journals

110 Recent books of interest

110 Recent papers of interest

111 **Orientation**

111 The International Centre of Rock Art Dating and Conservation (ICRAD); by R. G. Bednarik

112 Huashan nominated for World Heritage listing; by R. G. Bednarik

113 Centenary of modern rock art research in China: Beijing 2015; by Gori Tumi Echevarría López

114 IFRAO Congress 2015: Cáceres, Spain; by R. G. Bednarik

115 The 26th Valcamonica Symposium; by R. G. Bednarik

116 Rock art: a cultural treasure at risk

116 Cave art facsimiles; by Maxime Ferrier

117 Abstracts of recent Australian rock art theses

120 **IFRAO Report No. 55**

120 Minutes of the 2015 IFRAO Business Meeting

121 IFRAO Resolution 1

122 IFRAO Resolution 2 (The Cochabamba Manifest)

123 List of IFRAO Congresses — New members of IFRAO

Volume 32, Number 2, November 2015

131 **Looking up and looking down: pigment chemistry as a chronological marker in the Sydney Basin rock art assemblage, Australia**

 Jillian Huntley (Australia)

146 **Symbols by the sea: the first recording of Atlantic coastal rock art in Patagonia (Punta Odriozola, Río Negro, Argentina)**

 Natalia Carden and Florencia Borella (Argentina)

1. **Concerning a cupule sequence on the edge of the Kalahari desert in South Africa**

 Peter B. Beaumont (South Africa) and Robert G. Bednarik (Australia)

178 **The implications of a new corpus of late Bronze Age petroglyphs in the Forêt de Fontainebleau for dating local rock art**

 Duncan Caldwell (France)

193 **First record of painted rock art near Kupang, West Timor, Indonesia, and the origins and distribution of the Austronesian painting tradition**

 Sue O’Connor, Julien Louys, Shimona Kealy (Australia) and Mahirta (Indonesia)

202 **Azandaryan: newfound petroglyphs in Hamadan, western Iran**

 Esmail Hemati Azandaryani, Yaghoub Mohamadifar, Alireza Hejebri Nobari and Hamid Khanali (Iran)

207 **The seated figures of the Rio Grande de Nasca drainage: defining a descriptive type in the rock art of the Department of Ica, Peru**

 Ana Nieves (U.S.A.)

219 **The Kalatrancani petroglyph complex, central Bolivia**

 Roy Querejazu Lewis, David Camacho (Bolivia) and Robert G. Bednarik (Australia)

231 **Brief Reports**

231 Representation of scarification on the Venus of Hohle Fels, by Natalie R. Franklin and Phillip J.

Habgood

233 The use of natural features in the rock art of Ngaut Ngaut (Devon Downs), South Australia, and

beyond, by Amy Roberts, Isobelle Campbell, Natalie Franklin and the Mannum Aboriginal Community Association Inc. (MACAI)

238 Natural features in rock art: a response to Roberts et al., by Robert G. Bednarik

240 Preliminary study of rock art at Negaran valley in Baluchistan, Iran, by Hossein Sarhaddi-Dadian,

Hossein Moradi and Mojtaba Soltani

244 First record of the Indonesian short-finned eel (*Anguilla bicolour*) in Arnhem Land rock art,

 by Darrell Lewis

249 ***RAR* Review**

249 Recent rock art journals

249 Recent books of interest

249 Recent papers of interest

251 **IFRAO Report No. 54**

251 The Cochabamba Manifesto. Rock art protection and policies of development in South American countries: concerns from the First International Congress of Rock Art and Ethnography held in Cochabamba, Bolivia, between 23 and 26 September 2014

Volume 32, Number 1, May 2015

 3 **Pleistocene fauna depictions in American palaeoart**

 Robert G. Bednarik (Australia)

With *RAR* Comments by Patricia A. Helvenston, Polly Schaafsma, Jason R. Thompson, D. Clark Wernecke and Mary L. Gillam; with *RAR* Reply by the author.

31 **Rock art, technique and technology: an exploratory study of hunter-gatherer and agrarian communities in pre-Hispanic Chile (500 to 1450 CE)**

 Francisco Vergara and Andrés Troncoso (Chile)

46 **Acoustic rock art landscapes: a comparison between the acoustics of three Levantine rock art areas in Mediterranean Spain**

 Margarita Díaz-Andreu and Carlos García Benito (Spain)

 63 **Rock art and art history: exploring disciplinary perspectives**

 Susan Lowish (Australia)

 75 **A ‘port scene’, identity and rock art of the inland southern Kimberley, Western Australia**

 Jane Balme and Sue O’Connor (Australia)

 84 **Psilocybin-containing mushrooms, Upper Palaeolithic rock art and the neuropsychological model**

 Patricia A. Helvenston (U.S.A.); with *RAR* Comments by Tom Froese; and *RAR* Reply by the author.

116 **Brief Report**

116 The petroglyphs of Qameshlu National Park, central Iran; by Ebrahim Karimi and Baharudin Ujang

(Malaysia)

120 ***RAR* Review**

120 Recent rock art journals

120 Recent books of interest

121 Recent papers of interest

123 **Orientation**

123 Letter to the Editor — Rock Art Preservation Fund — Back issues

124 Australian cave art protection — Forthcoming events — Institutional subscriptions — Advertising —

Life Time Members

126 **IFRAO Report No. 53**

126 Minutes of the 2014 IFRAO Business Meeting

127 The 2014 IFRAO Congress in China — The First International Rock Art and Ethnography

Conference

Volume 31, Number 2, November 2014

131 **Archaic modernity vs the High Priesthood: on the nature of unstable archaeological/ palaeoanthropological orthodoxies**

 Jason Randall Thompson (U.S.A.)

 With *RAR* Comments by Ahmed Achrati, Robert G. Bednarik, Tony Convey, Robert B. Eckhardt,

Maciej Henneberg, Anatole A. Klyosov, Oscar Moro Abadía, Roy Querejazu Lewis and Ian Tattersall; with *RAR* Reply by the author.

157 **Images of relatedness: patterning and cultural contexts in Yanyuwa rock art, Sir Edward Pellew Islands, SW Gulf of Carpentaria, northern Australia**

 Liam M. Brady and John J. Bradley (Australia)

177 **Understanding the technology of the Daraki-Chattan cupules: the cupule replication project**

 Giriraj Kumar and Ram Krishna (India)

187 **Enigmatic engraved images found in the pre-Historic rock art of the Sahara**

 Susan Searight-Martinet (Morocco) and François Soleilhavoup (France)

199 **Newly found pictograms from Abdozou rockshelter, Firouzabad, southern Zagros, Iran**

 Taher Ghasimi, Cyrus Barfi and Reza Norouzi (Iran)

205 **The role of rock art in early state formation**

 Arnaud F. Lambert (U.S.A.)

225 **Mud-wasp nests and rock art**

 Robert G. Bednarik (Australia)

232 ***RAR* Debate**

232 Neoteny, female hominin and cognitive evolution, by Ahmed Achrati

239 The role of male and female in reproduction, and understanding of sexual selection when applied to

human artistic propensities, by M. A. C. Varella, J. H. B. P. Ferreira and A. A. L. de Souza

244 **Brief Reports**

244 Historical vandalism and ‘graffiti’ at Ngaut Ngaut (Devon Downs), South Australia, by Amy Roberts, Natalie Franklin, Isobelle Campbell and the MACAI

247 Joseph Bradshaw’s ‘lost’ watercolours found, by Michael P. Rainsbury

249 ***RAR* Review**

249 Book review by Dirk Huyge

251 Recent rock art journals

252 Recent books of interest

252 Recent papers of interest

255 **Orientation**

255 US$2.3 million: the largest fine in Chilean history for damage to the archaeological heritage, by Patricio Bustamante Díaz

256 Saudi Arabian sites proposed for World Heritage listing, by R. G. Bednarik

Volume 31, Number 1, November 2014

 3 **Gwion artists and Wunan Law: the origin of society in Australia**

 Jeff Doring with Paddy Nyawarra (Australia)

14 **The little-known Fitzmaurice region ‘wine-red’ pictograms**

 Graeme K. Ward and Mark Crocombe (Australia)

31 **What’s in a name? Towards a nomenclature for Gwions (‘Bradshaws’)**

 Mike Donaldson (Australia)

36 **Ngaut Ngaut (Devon Downs) petroglyphs reconsidered**

Amy Roberts, Natalie Franklin, Isobelle Campbell and the Mannum Aboriginal Community Association Inc. (MACAI) (Australia)

47 **Exograms**

 Robert G. Bednarik (Australia)

63 **Finger-counting in the Upper Palaeolithic**

 Karenleigh A. Overmann (U.S.A.)

 81 **The impact of a colonial road on the rock art of northern Mexico**

 Fernando Berrojalbiz (Mexico)

 92 **A scientific study of a new cupule site in Jabiluka, western Arnhem Land**

 Duncan Wright, Sally K. May, Paul S. C. Taçon and Birgitta Stephenson (Australia)

101 **Brief Reports**

101 ‘Interpreting’ polychrome paintings using DStretch, by R. G. Gunn, L. C. Douglas and R. L. Whear

104 Morricone del Pesco rockshelter, a new rock art discovery in southern Italy, by Dario Sigari and Carlo Peretto

107 Data and interpretation in the Côa valley, Portugal, by Robert G. Bednarik

110 Proposed age of recently discovered petroglyphs of Iran’s Toos Plain, by Elyas Saffaran and Zahra Mozhdekanloo

112 The role of engraved inscriptions in the dating of Iranian rock art, by Sirvan Mohammadi Ghasrian, Mozhgan Khanmoradi and Taher Ghasimi

115 Forthcoming events

116 ***RAR* Review**

116 Book reviews by Livio Dobrez and Robert G. Bednarik

118 Recent rock art journals

121 Recent books of interest

122 Recent papers of interest

123 **Orientation**

123 IFRAO Congress 2014, China: important announcements

126 Rock Art Symposium in Brazil

127 **IFRAO Report No. 52**

127 Minutes of the 2013 IFRAO Business Meeting: Albuquerque, U.S.A., 31 May 2013

Volume 30, Number 2, November 2013

139 **Rock art stories: standard narratives and their alternatives**

 Oscar Moro Abadía (Canada)

 With *RAR* Comments by Barbara Olins Alpert, J. B. Deręgowski, Ellen Dissanayake, Livio

Dobrez, Patricia Dobrez, Patricia A. Helvenston, Derek Hodgson, John Onians, Denise Smith and

Robert G. Bednarik; with *RAR* Reply by the author.

174 **Western Saharan sculptural families and the possible origins of the Osiris-Horus cycle**

 Duncan Caldwell (France)

The Adelaide Collection (Part 2)

197 **Megafauna depictions in Australian rock art**

 Robert G. Bednarik (Australia)

216 Some forthcoming publications in *RAR*

217 **The ‘Ngar-mimi’ motif from the Arnhem Land plateau**

 R. G. Gunn, L. C. Douglas and R. L. Whear (Australia)

235 **Firearms in rock art of Arnhem Land, Northern Territory, Australia**

 Daryl Wesley (Australia)

248 **Brief Reports**

248 ‘Mr Bradshaw’s drawings’: reassessing Joseph Bradshaw’s sketches, by Michael P. Rainsbury

253 New discoveries of rock art in Badalin Caves, Myanmar, by Yee Yee Aung

254 Corrigendum, by Ahmed Achrati

254 Virtual washing, by Jean-Loïc Le Quellec

255 **Orientation**

255 AURA turns thirty, by R. G. Bednarik

256 Siega Verde: a bungled submission to the World Heritage List, by R. G. Bednarik

258 First International Rock Art and Ethnography Conference — Rock Art Preservation Fund — Invitation to publish in *Arts*

259 Back issues — Electronic format of *RAR* — Please recommend institutional subscriptions — Advertising — Thanks to *RAR* referees

261 Forthcoming events — New members of AURA

262 **IFRAO Report No. 51**

262 The silver jubilee of IFRAO: a success story, by Robert G. Bednarik

Volume 30, Number 1, May 2013

 3 **Rock art, perspectival representation and mirror neurons**

 Ahmed Achrati (U.S.A.)

1. **The Huashan rock art site (China): the sacred meeting place for sky, water and earth**

Gao Qian (Spain)

 33 **Tracing the emergence of palaeoart in sub-Saharan Africa**

 Peter B. Beaumont and Robert G. Bednarik (South Africa, Australia)

1. **Wurdi Youang: an Australian Aboriginal stone arrangement with possible solar indications**

Ray P. Norris, Cilla Norris, Duane W. Hamacher and Reg Abrahams (Australia)

The Adelaide Collection (Part 1)

67 **Which way do we go? A story-based approach to archaeological interpretation of the rock art of Castle Rock, Chillagoe, north Queensland, Australia**

 W. Galiina Ellwood, Nicola B. Winn, John B. Campbell and Owen C. Ray (Australia)

 75 **Rock art animals in profile: visual recognition and the principles of canonical form**

 Livio Dobrez and Patricia Dobrez (Australia)

 91 **Rock art and narrative**

 Margaret Bullen (Australia)

 97 **Molluscs and fish in the rock art of the coast, estuary and hinterland of the Woronora Plateau, N.S.W.**

 Caryll Sefton (Australia)

103 **The place of rock art in Egyptian Predynastic iconography — some examples from the fauna**

 Frederick E. Hardtke (Australia)

115 **Brief Reports**

115 A phylogenetic approach of mythology and its archaeological consequences, by Julien d’Huy

118 A brief note on archaeological superposition at the Hensler Petroglyph Site (47DO461), Dodge County, Wisconsin, U.S.A., by Jack Steinbring

120 Abstract and geometrical figurative patterns in Peruvian rock art, the first writing in the Americas? by Gori Tumi Echevarría López

125 ***RAR* Review**

125 Book reviews by Ahmed Achrati and Robert G. Bednarik

127 Recent rock art journals

129 Recent books of interest

129 Recent papers of interest

130 **Orientation**

130 Final victory at Murujuga imminent, by R. G. Bednarik

131 Tasmanian spring, by R. G. Bednarik

132 International Conference on Rock Art, New Delhi 2012, by R. G. Bednarik

133 3D rock art PDF — Proceedings of the IFRAO Congress 2010, Tarascon, France — Letter to the Editor — Forthcoming events

134 **IFRAO Report No. 50**

134 New member of IFRAO — 2014 congress in China — The International Conference on Rock Art

2012, New Delhi, India: moving forward to a new vision of rock art, by Gori Tumi Echevarría L.

Volume 29, Number 2, November 2012

139 **The deteriorating preservation of the Altai rock art: assessing three-dimensional image-based modelling in rock art research and management**

Gertjan Plets, Geert Verhoeven, Dimitry Cheremisin, Ruth Plets, Jean Bourgeois, Birger Stichelbaut, Wouter Gheyle and Jeroen De Reu (Belgium, Russia, Northern Ireland)

156 About *RAR*

157 **New discovery of rock art and megalithic sites in the Central Plain of China**

Tang Huisheng (China)

171 **Oh dear! No deer!**

 David M. Welch (Australia)

179 **Two southern African rock art sites as indicators of ancient migratory routes**

Piet van Rooyen (Namibia)

187 **Discovery of cave art in the province of Fars, southern Iran**

 Leila Fazel and Sajjad Alibaigi (Iran)

191 **Traces of the ancients: ethnographic vestiges of Pleistocene ‘art’**

 R. G. Bednarik and M. Sreenathan (Australia, India)

219 ***RAR* Debate**

219 The parasitic nature of ‘art’: response to Varella et al. and associated commentaries, by Derek Hodgson

221 ‘Parasitic’ is a lousy way to describe the active nature of art, by Ellen Dissanayake

223 But what exactly is the aesthetic?, by Livio Dobrez

225 Perfectionism: examples of human aesthetic ‘artification’ from deep in the archaeological record, by Patricia A. Helvenston

227 Considering both proximal and distal explanations for (rock) art production and appreciation as fruitful, by M. A. C. Varella, A. A. L. de Souza and J. H. B. P. Ferreira

229 The lure of the arts, reply by Derek Hodgson

233 2012 AURA Inter-Congress Symposium

234 **Brief Reports**

234 Early rock art at the Upper Sand Island Site near Bluff, Utah, United States: addenda et corrigenda, by Ekkehart Malotki

238 An example of stencil masking from the Arnhem Land Plateau, by R. G. Gunn, L. C. Douglasand R. L. Whear

241 Rock art at the ‘Mini-Yengo’ site near Kulnura, New South Wales, by Duane W. Hamacher, John K. Clegg and Robert C. Pankhurst

244 U-Th analysis and rock art: a response to Pike et al., by Robert G. Bednarik

247 ***RAR* Review**

247 Deciphering ancient minds: the mystery of San Bushman rock art. A critical book review, by Patricia A. Helvenston

256 Book reviews by Harold Fromm, Robert G. Bednarik, Michael Eastham and Mike Donaldson

264 Recent rock art journals

266 Recent books of interest

267 Recent papers of interest

269 **Orientation:** Help sought

270 **IFRAO Report No. 49**

270 Minutes of the 2012 IFRAO Business Meeting

271 SIARB-IFRAO Congress 2012, by Matthias Strecker

271 Proposal for rock art protection, by Patricio Bustamante Díaz

##### Volume 29, Number 1, May 2012

 3 **The body and the brain: neuroscience and the representation of anthropomorphs in palaeoart**

 Ben Watson (Australia)

19 **Engraved memory: petroglyphs and collective memory at Los Mellizos, Illapel, Chile**

 Felipe Armstrong Bruzzone (Chile)

 35 **Rock art and pre-Historic ritual behaviour: a landscape and acoustic approach**

 Gregory E. Williams (U.S.A.)

 47 **The ‘polished’ petroglyphs of north Norway: some methodological remarks regarding location and age**

 K. J. Sognnes (Norway)

 59 **The use of weathering indices in rock art science and archaeology**

 Robert G. Bednarik (Australia)

 85 **Organisation of a petroglyph complex at Creysseilles (Ardèche, France)**

 Philippe Hameau (France)

 93 **Elemental characterisation of pre-Hispanic rock art and arsenic in northern Chile**

 Marcela Sepúlveda, Eric Laval, Lorena Cornejo and Jorge Acarapi (Chile)

109 ***RAR* Debate**

109 Pseudoscience in rock art studies, by Patricia A. Helvenston

110 Response to Patricia Helvenston, by Margaret Bullen

113 **Brief Reports**

113 The petroglyphs of Dowzdaghi, north-western Iran, by Kamal Aldin Niknami, Mehdi

 Kazempur and Nasir Eskandari

115 Two Kakadu headdresses, by David M. Welch

118 **Orientation**

118 **Bibliography of rock art dating**

 Marvin W. Rowe (U.S.A.)

132 **Remembering George**

 Mike Smith (Australia)

135 Forthcoming events

136 **IFRAO Report No. 48**

136 First International Rock Art and Ethnography Conference — New member of IFRAO

##### Volume 28, Number 2, November 2011

143 **Columbian mammoth petroglyphs from the San Juan River near Bluff, Utah, United States**

 Ekkehart Malotki and Henry D. Wallace (U.S.A.)

153 **Evolutionary aesthetics and sexual selection in the evolution of rock art aesthetics**

Marco Antônio Corrêa Varella, Altay Alves Lino de Souza and José Henrique Benedetti Piccoli Ferreira (Brazil).

With *RAR* Comments by Benjamin Watson, Patricia A. Helvenston, Livio Dobrez, Ellen Dissanayake, Duncan Caldwell, Ahmed Achrati and Robert G. Bednarik; with *RAR* Reply by the authors.

187 **What the ‘animal’ rock art images of the Eastern Desert of Egypt tell us about the people who drew them**

 Tony Judd (United Kingdom)

197 **Mobile and settled: the petroglyphs of Helankou, Ningxia, western China**

 Paola Demattè (U.S.A.)

211 **A tentative sequence and chronology for Checta, Peru**

 Gori Tumi Echevarría López (Peru)

225 **Eastern Arrernte rock art and land tenure**

 R. G. Gunn (Australia)

241 **The petroglyphs of Gundungurra country**

 Jim Smith and Paul Jennings (Australia)

251 **Visitor books in the management of rock art sites: an evaluation using Carnarvon Gorge as a test case**

 Natalie R. Franklin (Australia)

265 **Brief Reports**

265 GigaPan panoramas for rock art panel documentation: a practical guide, by Robert Mark and Evelyn Billo.

268 Mootha — a new cave art site near Mount Gambier: preliminary report, by Geoffrey D. Aslin

271 On the perceptual significance of detached horns in Bushmen’s depictions of animals: a note, by J. B. Deręgowski

273 ***RAR* Review**

273 Book reviews by Matthias Strecker and Philippe Hameau

274 Recent rock art journals

275 Recent book of interest

276 Recent papers of interest

278 **Orientation**

278 Eloy Linares Málaga, 1926 – 2011, by Gori Tumi Echevarría López

279 Back issues — Forthcoming events

280 **IFRAO Report No. 47**

280 International Congress: Archaeology and Rock Art — 25 years SIARB (La Paz, 2012)

##### Volume 28, Number 1, May 2011

3 **Twenty-five years of Australian rock art research**

 R. G. Gunn (Australia)

7 **The role of AIATSIS in research and protection of Australian rock art**

 Graeme K. Ward (Australia)

17 **Dampier Archipelago: decades of development and destruction**

 Ken Mulvaney (Australia)

27 **The Dampier campaign**

 Robert G. Bednarik (Australia)

35 **Understanding the rocks: rock art and the geology of Murujuga (Burrup Peninsula)**

 Mike Donaldson (Australia)

45 **Fire and rock art**

 David Lambert and Brad Welsh (Australia)

49 **The effects of fire on the rock art of the Woronora Plateau**

 Caryll Sefton (Australia)

53 **The impact of bushfires and fuel reduction burning on the preservation of shelter rock art**

 R. G. Gunn (Australia)

71 **Rock art, perception and the subject/object binary**

 Livio Dobrez (Australia)

85 **Characteristics of a pigment art sequence: Woronora Plateau, New South Wales**

 Jillian Huntley, Alan Watchman and Julie Dibden (Australia/U.S.A.)

99 **Astronomical symbolism in Australian Aboriginal rock art**

 Ray P. Norris and Duane W. Hamacher (Australia)

107 **‘Rock paintings are stories’ — rock art and ethnography in the Laura (Quinkan) region, Cape York Peninsula**

 Noelene Cole (Australia)

117 **Creativity, mental disorder and Upper Palaeolithic cave art**

 Margaret Bullen (Australia)

123 **Documenting natural and cultural places with 360° spherical images, panoramic and timelapse digital photography**

 John Goldsmith (Australia)

 128 ***RAR* Debate:**  Resolution: photography and the human eye, by Michael Eastham

 130 Reply to Eastham, by R. G. Gunn

 132 ***RAR* Review:**  Book reviews by Matthias Strecker and Robert G. Bednarik

 135 Recent rock art journals

 136 Recent books of interest — Recent papers of interest

 137 **Orientation:**  Pleistocene Art of the World: Tarascon-sur-Ariège 2010

 138 Jean Clottes honoured — Letter — Advertising — Forthcoming events

 139 **IFRAO Report No. 46**

 139 Minutes of the 2010 IFRAO Business Meeting, Tarascon-sur-Ariège

 140 SIARB’s IFRAO Congress of 2012

##### Volume 27, Number 2, November 2010

131 **A method to visually rationalise superimposed pigment motifs**

 R. G. Gunn, C. L. Ogleby, D. Lee and R. L. Whear (Australia)

137 **Finger fluting and other cave art in Cumayasa, Dominican Republic**

 Daniel DuVall (U.S.A.)

147 **The Hohle Fels ‘Venus’: some remarks on animals, humans and metaphorical relationships in early Upper Palaeolithic art**

 Martin Porr (Australia)

159 The members of IFRAO

161 **Rock paintings of the Precordillera region of northern Chile**

 Marcela A. Sepúlveda R., Thibault Saintenoy and Wilfredo Faundes (Chile)

177 **Cupules in Kurdistan rock art**

 Jamal Lahafian (Iran)

185 **Djedefre’s Water Mountain: phases of degradation**

 Friedrich Berger (Germany)

195 **Protection of Scandinavian rock art using marine clay**

Eva Ernfridsson, Per Hagelia, Gro Anita Bårdseth, Tanaquil Enzensberger and Kristin Marie Berg (Sweden and Norway)

207 **Australian papers from the Agra conference**

 Graeme K. Ward (Guest Editor)

210 **The role of trance in the creation of rock art images**

 Margaret Bullen (Australia)

217 **Developments in petroglyph dating**

 Robert G. Bednarik (Australia)

223 **Dating of rock paintings in the Wadeye-Fitzmaurice region, Northern Territory**

 Alan Watchman, Graeme K. Ward, Mark Crocombe and Ken Mulvaney (Australia)

229 **Rock paintings near Wadeye, Northern Territory: site management and educational aspects of research and tourism**

 Graeme K. Ward and Mark Crocombe (Australia)

237 The IFRAO Code of Ethics

239 **Safeguarding the cave paintings in Lofoten, northern Norway**

 Terje Norsted (Norway)

251 ***RAR* Debate:**  The contested Meenamatta petroglyphs, Tasmania, by R. G. Bednarik,

 G. Andrews, S. Cameron, P. C. Sims and E. Bednarik

257 **Brief Report:**  Recent excavation and recording program at the Llwydiarth Esgob Stone,

Llandyfrydog, Anglesey, north Wales, by George Nash, Abby George, Adam Stanford and Thomas Wellicome

261 ***RAR* Review:**  Book reviews by Giriraj Kumar and Yann-Pierre Montelle

264 Recent rock art journals

265 Recent books of interest — Recent papers of interest

267 **Orientation:**  Rock art consultants register — Thanks to *RAR* referees

268 AURA Honour List

269 Diverse

271 **IFRAO Report No. 45**

271 Conference in Siberia — *Rock Art Glossary: a multilingual dictionary*

272 Palaeoart exhibition, Moscow

##### Volume 27, Number 1, May 2010

 3 **AMS radiocarbon ages for beeswax and charcoal pigments in north Kimberley rock art**

 M. J. Morwood, G. L. Walsh and A. L. Watchman (Australia)

 9 **‘New’ rock art from Gua Tambun, Perak, Malaysia**

 Noel Hidalgo Tan and Stephen Chia (Malaysia)

 19 **Rock art conservation and termite management in Torres Strait, NE Australia**

 Liam M. Brady, Andrew Thorn, Ian J. McNiven and Theodore A. Evans (Australia)

 35 **Making sense of scenes**

 Sally K. May (Australia) and Inés Domingo Sanz (Spain)

 43 **Images that travel: Aguada rock art in north-central Chile**

 Andrés Troncoso and Donald Jackson (Chile)

 With *RAR* Comments by Natalia Carden, Dánae Fiore and Robert G. Bednarik;

 with *RAR* Reply by the authors

 61 **The neuropsychology of ‘animism’: implications for understanding rock art**

 Patricia A. Helvenston (U.S.A.) and Derek Hodgson (United Kingdom)

 With *RAR* Comments by J. B. Deręgowski, Paul S. C. Taçon, Benjamin

 Watson and Robert G. Bednarik; with *RAR* Reply by the authors

 89 **Australian rock art of the Pleistocene**

 Robert G. Bednarik (Australia)

115 ***RAR* Review**

115 Book review by Friedrich Berger

119 Recent rock art journals

120 Recent books and papers of interest

125 **Orientation**

125 Broken Hill: AURA Inter-Congress Symposium 2009, by R. G. Bednarik

126 Consultants register of AURA

127 Letter to the Editor — PANDORA — Rock Art Preservation Fund — Forthcoming events —

 New members

128 **IFRAO Report No. 44**

128 New IFRAO member — Pleistocene art of the world

##### Volume 26, Number 2, November 2009

127 **Anthropomorph symbols in Pecos River ‘style’ iconography**

 James B. Harrison III (U.S.A.)

139 **Archaeology of rock art: a preliminary report of archaeological excavations at rock art sites in Colombia**

Pedro María Argüello García (Colombia), with *RAR* Comments by Roy Querejazu Lewis, Gori Tumi Echevaría López, Natalia Carden, Andrés Troncoso, Diego Martínez Celis, Jack Steinbring, Judith Trujillo T., Guillermo Muñoz Castilblanco, Yann-Pierre Montelle and Robert G. Bednarik, with *RAR* Reply by the author

165 **To be or not to be Palaeolithic, that is the question**

 Robert G. Bednarik (Australia)

179 **Myth, ritual and rock art: Coso decorated animal-humans and the Animal Master**

 Alan P. Garfinkel, Donald R. Austin, David Earle and Harold Williams (*Wokod*)

199 **Finger markings and the Willandra Lakes footprint site, south-eastern Australia**

 N. R. Franklin and P. J. Habgood (Australia)

205 **Bushfire-induced heat and smoke patterns within an Aboriginal rock art shelter**

 R. G. Gunn and R. L. Whear (Australia); with Appendix by Michael J. Rowland

213 **The ‘Llamas’ from Choquequirao: a 15th-century Cusco imperial rock art**

 Gori Tumi Echevarría López and Zenobio Valencia García (Peru)

225 ***RAR*** **Debate**

225 The IFRAO Standard Scale: a revision, by Gori Tumi Echevarrيa L.

226 Reply to Echevarría López, by Robert G. Bednarik

227 The petroglyph recording standards debate, by Richard W. Murison

228 ***RAR* Review**

228 Book review by Yann-Pierre Montelle

230 Recent rock art journal

231 Recent books and papers of interest

233 **Orientation**

233 Capivara 2009: a most enjoyable IFRAO Congress, by R. G. Bednarik

236 UNESCO and global rock art, by R. G. Bednarik

238 State of the art summary for UNESCO, by R. G. Bednarik

241 AURA Committee — AURA Honour List — Donations made to the Rock Art Preservation Fund

242 Academic ranking of *RAR* — New Editorial Board member — Electronic format of *RAR*

 — Forthcoming events

243 Hans (Juan) Schobinger 1928–2009, by Matthias Strecker

244 **IFRAO Report No. 43**

244 Chinese rock art museum opened (Chen Zhao Fu) — Minutes, 2009 IFRAO Business Meeting

247 Resolution of Capivara Congress — *Pleistocene Art of the World*

252 Five new IFRAO members

##### Volume 26, Number 1, May 2009

 4 Editorial

 7 **Application of forensic methods to rock art investigations — a proposal**

 Yann-Pierre Montelle (New Zealand)

 15 **Style vs memetics: exploring some new ideas**

 Denise Smith (U.S.A.), with *RAR* Comments:

 20 Notes on memetics, by Paul Faulstich

 22 Memes and rock-art: an unproven and unpromising approach, by Christopher Chippindale, Bruno

David and Paul S. C. Taçon

 23 Memetic gymnastics in rock art research, by Andrea Stone

 24 The selfish meme meme, by Livio Dobrez

 25 Track Rock Gap in its archaeological and ethno-historical setting, by Johannes H. N. Loubser

 27 Exploring some new ideas, *RAR* Reply by Denise Smith

 29 **Prints on the rocks: a study of the track representations from Piedra Museo locality (southern**

**Patagonia)**

 Natalia Carden (Argentina)

 43 **Unravelling the Cowhead Mesa petroglyphs with 3-D laser scanning and high-resolution digital**

**photography**

 Stance Hurst, Elizabeth Louden and Eileen Johnson (U.S.A.)

 55 **Experimental colorimetric analysis of petroglyphs**

 Robert G. Bednarik (Australia)

 65 **Palaeolithic whistles or figurines? A preliminary survey of pre-Historic phalangeal figurines**

 Duncan Caldwell (France)

 83 **Art and humans in confined space: reconsidering Solsem Cave, Norway**

 K. J. Sognnes (Norway)

 95 **The petroglyphs of Carschenna, Switzerland**

 Inge Diethelm and Heinz Diethelm (Switzerland)

99 **Brief Reports**

 99 Palaeolithic caves of northern Spain: World Heritage Site, by Marcos García Diez (Spain)

101 New megalithic art at the Neolithic chambered monument of Dyffryn Ardudwy, north Wales, by

George Nash and Adam Stanford (United Kingdom)

106 ***RAR* Review**

106 Book reviews by Denise Smith, Michael Eastham, Yann-Pierre Montelle and Friedrich Berger

112 Recent rock art journals

114 Recent books and papers of interest

115 **Orientation**

115 AURA Inter-Congress Symposium 2009, Broken Hill, by R. G. Gunn

116 Murujuga rock art at AAA 2008, by R. G. Bednarik

117 AURA rock art consultants register: first notice, by R. G. Bednarik

118 Lascaux et la Conservation: en Milieu Souterrain: impressions of an importent symposium

118 Lascaux: adapting vs eradicating, by Yann-Pierre Montelle

120 Lascaux matters, by Robert G. Bednarik

122 Kevin Sharpe 1950 – 2008

123 **IFRAO Report No. 42**

123 International IFRAO Congress *Global Rock Art*, National Park Serra da Capivara, Piaui, Brazil, 29

June to 3 July 2009

##### Volume 25, Number 2, November 2008

131 **Characterisation of materials and techniques used in Mexican rock paintings**

Benjamin Valdez, Juan Cobo, Michael Schorr, Roumen Zlatev and Leonel Cota (Mexico)

137 **Rock art west of Dakhla: the ‘women’ from Dakhla**

 Friedrich Berger (Germany)

147 **Of turtles in particular: a distributional study of an archaeological landscape in southern**

**Murujuga**

 R. G. Gunn and K. Mulvaney (Australia)

165 **Towards a formal grammar of the European Palaeolithic cave art**

 Georges Sauvet and André Wlodarczyk (France)

173 **Children as Pleistocene artists**

 Robert G. Bednarik (Australia)

183 **Dry-pigment drawings within Gariwerd, Australia**

 R. G. Gunn (Australia)

201 ***RAR* Debate**

201 ‘ “Aymara” rock art: a critique of cultural definitions related to Andean rock art’, by Gori Tumi

Echevarría López

203 ‘ “Aymara” and “Inca” rock art’, by Matthias Strecker, Freddy Taboada, Carmen Pérez Maestro and

Rolando Paredes Eyzaguirre

204 ‘More Tasmanian cupules’, by Peter C. Sims

207 ‘Congolese uses of cupules’, by Georges E. Lombry

209 ‘Cupules and geomorphological phenomena’, by Andy Spate and Robert Wray

211 ‘Snames’, by John Clegg

214 ‘On cupule interpretation’, by Robert G. Bednarik

221 ‘Enigmatic petroglyphs of Saudi Arabia’s High Plateau’, by Georges E. Lombry

222 ‘Possible interpretation of a set of petroglyphs from Sakkaka, Saudi Arabia’, by Maarten van Hoek

223 ‘Reply to Lombry and van Hoek’, by Majeed Khan

225 **Brief Reports**

225 ‘Towards bringing Saudi Arabian Northern Province rock art out of obscurity’, by Richard W.

Murison

227 ‘The Heysham labyrinth, Morecambe Bay, northern England’, by George Nash

229 ‘Rock art heritage of Macusani-Corani in the Carabaya Province of Peru, under increased threat of

destruction’, by Rainer Hostnig

234 ***RAR* Review**

234 Book reviews by Yann-Pierre Montelle, Mike Donaldson and Robert G. Bednarik

237 Recent rock art journals, books and papers of interest

239 **Orientation**

239 Broken Hill 2009 — AURA Committee — IFRAO Standard Scale — *Rock art studies: a*

*bibliographic database* updated for 2008 — AURA Honour List — Back issues — Cave art —

Forthcoming events — New members

242 **IFRAO Report No. 41**

242 *Global Rock Art IFRAO* Congress, Brazil 2009 — *Pleistocene Art of the World* IFRAO Congress,

France 2010 — *Archaeology and Rock Art* IFRAO Congress, Bolivia 2012

246 The first quarter: an editorial footnote

##### Volume 25, Number 1, May 2008

 3 **Spatial syntax of rock art**

Andrés Troncoso M. (Chile)

 13 **Symbolism in the rock art of Saudi Arabia: hand and footprints**

Majeed Khan (Saudi Arabia)

 23 **Hand prints, footprints and the imprints of evolution**

Ahmed Achrati (U.S.A.)

 35 **Oodles of doodles? Doodling behaviour and its implications for understanding**

**palaeoarts**

Ben Watson (Australia)

With *RAR* Comments by John L. Bradshaw, J. B. Deręgowski, Livio Dobrez, Paul Faulstich, James B. Harrod, Derek Hodgson, Paul S. C. Taçon and Robert G. Bednarik; and author’s reply.

 61 **Cupules**

Robert G. Bednarik (Australia)

101 **Are Neanderthal portraits wrong? Neanderthal adaptations to cold and their impact**

**on Palaeolithic populations**

Duncan Caldwell (France)

117 ***RAR* Debate**

117 ‘Apropos “association” ’, by Werner Pichler

119 ‘From co-occurrence to association’, by Jean-Loïc Le Quellec

121 ‘Thamudic traces: some remarks’, by Ahmed Achrati

125 ***RAR* Review**

125 Book reviews by Robert G. Bednarik

127 **Orientation**

127 Letter to the Editor — Forthcoming events — Murujuga rock art

128 **IFRAO Report No. 39**

128 New members of IFRAO — International IFRAO Congress in Brazil

#### Volume 24, Number 2, November 2007

148 Dampier rock art heritage listed at last!

149 **The economic side of rock art: concepts on the production of visual images**

 Dلnae Fiore (Argentina)

161 **Petroglyphs of Meenamatta, the Blue Tier mountains, Tasmania**

 Robert G. Bednarik, Gloria Andrews, Stephen Cameron and Elfriede Bednarik (Australia)

 With *RAR* Comment by Peter C. Sims

171 **’Aymara’ rock art of Cutimbo, Dept. of Puno, Peru**

 Matthias Strecker (Bolivia), Carmen Pérez Maestro (Spain), Rolando Paredes Eyzaguirre and Pablo

Gómez Jareca (Peru)

181 **Reduction sequences of colorant materials: the rock art site of Santa Elina (Mato Grosso, Brazil)**

 Francesco d’Errico and Agueda Vilhena Vialou (France)

191 **Cross-cultural contact, etiquette and rock art**

 Thomas Heyd (Canada)

199 **The interpretation of handedness in Australian Aboriginal rock art**

 R. G. Gunn (Australia)

209 **The science of Dampier rock art — part 1**

 Robert G. Bednarik (Australia)

247 ***RAR* Debate**

247 ‘ “Rock art” history and terminology: response to commentators’, by B. K. Swartz, Jr.

248 ‘Regarding the “thamoud” ‘, by Georges E. Lombry

251 **Brief Reports**

251 ‘Rock art and Thiéry’s figure’, by J. B. Deręgowski and P. McGeorge

253 ‘Towards gathering data: a suggested pro forma for the monitoring of damage to rock art sites in

the Sydney and Blue Mountains regions’, by Barry Lewis

255 ‘A re-evaluation of the “monkey” petroglyph at the Quebrada de San Juan, Peru’, by Maarten van

Hoek

257 ‘New megalithic art within the Neolithic passage grave of Barclodiad y Gawres, Anglesey, North

Wales’, by George Nash and Adam Stanford

261 ***RAR* Review**

261 Book reviews by Robert G. Bednarik, of Jean-Loïc Le Quellec, *Rock art in Africa: mythology and*

*legend*; and Jean-Loïc Le Quellec, Pauline de Flers and Philippe de Flers, *Peintures et gravures d’avant les pharaons: du Sahara au Nil*

262 Recent rock art journals

264 Recent books of interest

264 Recent papers of interest

267 **Orientation**

267 ‘Good progress at Dampier’, by Robert G. Bednarik

271 The Rock Art Preservation Fund

271 AURA Honour List

272 Back issues, Cave art, Forthcoming events, New members

273 **IFRAO Report No. 39**

273 ‘The first international cupule conference: a report’, by Robert G. Bednarik

276 New member of IFRAO

276 Pre-Historic art congress 2010: ‘Pleistocene Art of the World’

#### Volume 24, Number 1, May 2007

 4 AURANET home-pages

 5 **The Jawoyn Rock Art and Heritage Project**

R. G. Gunn and R. L. Whear (Australia)

 21 **Antiquity and authorship of the Chauvet rock art**

Robert G. Bednarik (Australia)

 35 **Naturalised epistemology, human models of reality, salience and cave iconography**

Yann-Pierre Montelle (New Zealand). With *RAR* Comments by Ahmed Achrati, Robert G.

Bednarik and Thomas Heyd; and author’s reply

 47 **Body and embodiment: a sensible approach to rock art**

Ahmed Achrati (U.S.A.)

 59 **Sangestoon: a new rock art site in central Iran**

Sirwan Mohamadi Ghasrian (Iran)

 65 **Presumed cattle petroglyphs in the Eastern Desert of Egypt. Precursors of classical**

**Egyptian art?**

Tony Judd (United Kingdom)

 79 **Discontinuous Dreaming networks: analyses of variability in Australian pre-Historic**

**petroglyphs**

Natalie R. Franklin (Australia)

105 **Epistemology, modernism and sacred languages: two levels of the human language**

Guillermo Muñoz C. (Colombia)

113 ***RAR* Debate**

113 ‘Against deceit’, by Livio Dobrez. Comment on Derek Hodgson and Patricia A. Helvenston’s ‘The

emergence of the representation of animals in palaeoart’

116 ‘The evolution of animal representation: a response to Dobrez’, by Derek Hodgson and Patricia A.

Helvenston

124 Further comments on Christopher Chippindale and Paul S. C. Taçon’s ‘What’s in a word, what’s in

a hyphen?’: ‘On “rock art” history and terminology’, by B. K. Swartz, Jr

126 ‘Contesting the incontestable’, by Jack Steinbring

126 ‘Rock-writing, picture-writing, petroglyphs, rock-art; and the importance of the hyphen’, by Paul S.

C. Taçon and Christopher Chippindale

127 ‘Rock art history and use of the term: reply to Swartz’, by Mavis Greer and John Greer

131 ‘Reflections on North American archaeology and rock art’, by Alanah Woody and Angus R.

Quinlan

133 ‘More about “More about finger flutings” ‘, by Kevin Sharpe and Leslie Van Gelder, a reply to R.

G. Bednarik

135 ‘Progress with rock art protection in Tasmania’, by R. G. Bednarik

136 **Brief Reports**

136 ‘The crisis in Lascaux: update March 2007’, by Melody Di Piazza

137 ‘Holocene petroglyphs at Philippi, Greece’, by George Dimitriadis

139 **Orientation**

139 ‘Dampier rainwater as acidic as beer: CSIRO’, by Robert G. Bednarik

141 ‘The Burrup Blues’, a poem by M. J. McBain and Noel Nannup

142 Chilean court ruling

142 Rock art studies: a bibliographic database

143 WAC Inter-Congress: Archaeological Invisibility and Forgotten Knowledge

143 ARARA news

144 **IFRAO Report No. 38**

144 ‘International Cupule Conference 2007’, by Roy Querejazu Lewis

#### Volume 23, Number 2, November 2006

148 Editorial

153 **The story of the Arabian rock art: a Thamudic ‘informant’**

 Ahmed Achrati (U.S.A.)

165 **The sense in question: some Saharan examples**

 Jean-Loïc Le Quellec (France)

171 **Classifying a set of rock art: how to choose the criteria**

 Alfred Muzzolini (France)

179 **Finger flutings in Chamber A1 of Rouffignac Cave, France**

 Kevin Sharpe and Leslie Van Gelder (United Kingdom). With *RAR* Comment by Robert G.

Bednarik.

199 **Cup-and-ring petroglyph on the Neolithic chambered burial monument of Garn Turne,**

**Pembrokeshire, SW Wales**

 George Nash (United Kingdom)

207 **The cave art of Mladeč Cave, Czech Republic**

 Robert G. Bednarik (Australia)

217 **Opposition and unity: shamanistic dualism in Tibetan and Chinese pre-Historic art**

 Tang Huisheng (China)

227 **Wollemi petroglyphs, N.S.W., Australia: an unusual assemblage with rare motifs**

 Paul S. C. Taçon, Matthew Kelleher, Wayne Brennan, Shaun Hooper and Dave Pross (Australia)

239 **Copying the Dreamtime: anthropic marks in early Aboriginal Australia**

 Josephine Flood (United Kingdom)

247 ***RAR* Debate**

247 Comment on Derek Hodgson and Patricia A. Helvenston’s ‘The emergence of the representation

 of animals in palaeoart’, by Paul S. C. Taçon

249 Further thoughts on comments by Chippindale and a reply to Taçon, by Patricia A. Helvenston and

 Derek Hodgson

253 Do giraffes sit everywhere?, by Jan B. Deregowski

254 Giraffes never, or rarely, sit in the Eastern Desert, by Tony Judd

254 What’s in a word, what’s in a hyphen? A modest proposal that we abandon the words ‘petroglyph’

 and ‘pictograph’, and hyphenate ‘rock-painting’, ‘rock-engraving’, ‘rock-art’ among the words we

 use, by Christopher Chippindale and Paul S. C. Taçon, with RAR Comments by Yann-Pierre

 Montelle and Robert G. Bednarik, and authors’ Reply

261 **Brief Reports**

261 Rock art destruction at El Mauro, Chile: one of the world’s largest mining waste dams, by Patricio

 Bustamente Díaz

264 Minimum standards for recording rock art, revised, by B. K. Swartz, Jr.

265 Micoquian engravings from Oldisleben, Germany, by Robert G. Bednarik

268 Update on the crisis in Lascaux, by Melody Di Piazza

270 ***RAR* Review**

270 Book review by Derek Hodgson, of Patricia A. Helvenston and Paul G. Bahn, *Waking the trance*

 *fixed*

271 Book review by Yann-Pierre Montelle, of Thomas Heyd and John Clegg, *Aesthetics and rock art*

273 Book review by John Clegg, of John Coles, *Shadows of a northern past: rock carvings of*

 *Bohuslän and Østfold*

274 Book review by Ahmed Achrati, of Robert G. Bednarik, *Australian Apocalypse. The story of*

 *Australia’s greatest cultural monument*

275 Book review by Claire Smith, of Ian Wilson, *Lost world of the Kimberley: extraordinary glimpses*

 *of Australia’s Ice Age ancestors*

277 Recent rock art journals

278 Recent books of interest

278 Recent papers of interest

280 **Orientation**

280 Some thoughts on the 15th Congress of the UISPP, by Robert G. Bednarik

282 Rock art protection in Tasmania, by Robert G. Bednarik

282 AURA Honour List

282 New Editorial Board member

283 Back issues

283 Forthcoming events

283 New members

283 Erratum

284 **IFRAO Report No. 37**

284 New member of IFRAO

284 IFRAO affiliated with UISPP

284 International Cupule Conference 2007, by Roy Querejazu Lewis

285 New activities by SIARB (Bolivia), by Matthias Strecker

285 CeSMAP report for 2004 – 2006, by Dario Seglie

286 Minutes of the 2006 IFRAO Business Meeting, Lisbon, Portugal

#### Volume 23, Number 1, May 2006

 3 **The emergence of the representation of animals in palaeoart: insights from evolution and the**

**cognitive, limbic and visual systems of the human brain**

 Derek Hodgson (United Kingdom) and Patricia A. Helvenston (U.S.A.). With *RAR* Comments by

John Bradshaw, Christopher Chippindale, Frederick L. Coolidge and Thomas Wynn, Francesco G. Fedele, Donald Meyer, Yann-Pierre Montelle, Robert G. Bednarik; and authors’ Reply

 41 **Learning from curves: the female figure in Palaeolithic Europe**

Pamela Russell (New Zealand)

 51 **Colouring stone: examining categories in rock art**

 Noelene Cole with George Musgrave (Australia)

#  59 Presumed giraffe petroglyphs in the Eastern Desert of Egypt: style, location and Nubian

# comparisons

 Tony Judd (United Kingdom)

 71 **Music and rock art: a Saharan note**

 Ahmed Achrati (U.S.A.)

 79 **Between artefacts and egofacts: the power of assigning names**

 Mario Consens (Uruguay)

 85 **A unified theory for palaeoart studies**

 Robert G. Bednarik (Australia)

 89 **Probing pre-Historic cultures: data, dates and narratives**

 Paul Bouissac (Canada)

 97 **Hand sizes in rock art: interpreting the measurements of hand stencils and prints**

 R. G. Gunn (Australia)

113 ***RAR* Debate**

113 Comment on EIP preliminary report, by James Harrod

114 Response to Harrod’s questions, by R. G. Bednarik, G. Kumar, A. Watchman and R. G. Roberts

119 **Brief Reports**

119 Rock art vandalism in Tasmania, by Peter C. Sims

122 Rock art and hermeneutics: the question of interpretation, by Yann-Pierre Montelle

125 The methodology of examining very early engravings, by Robert G. Bednarik

129 ***RAR* Review**

129 Book reviews by Walter Bowyer, Yann-Pierre Montelle, Rachel Boutin, John Clegg and Robert G.

 Bednarik

135 Recent rock art journals

136 Recent books of interest

137 **Orientation**

137 Lascaux: masterpiece in peril — Quantification of the amount of rock art lost at Dampier

140 World of rock art: Moscow, 3–7 October 2005

141 Australian Archaeological Association — Decolonising Archaeology: Archaeology and the Post-

 Colonial Critique

142 Other forthcoming events — Anders Hagen 1921–2005

143 **IFRAO Report No. 36**

143 IFRAO Global State of the Art

144 Activities by TARA (Trust of African Rock Art) — Open letter

#### Volume 22, Number 2, November 2005

 119 **Non-invasive three-dimensional recording of Aboriginal rock art using cost-effective digital**

**photogrammetry**

 J. H. Chandler (United Kingdom), J. G. Fryer and H. T. Kniest (Australia)

 131 **Digital rock art recording: visualising petroglyphs using 3D laser scanner data**

I. Trinks (Sweden), M. Díaz-Andreu, R. Hobbs and K. E. Sharpe (United Kingdom)

 141 **An analysis of challenges to the authenticity of rock art sites in the Gariwerd**

 **(Grampians) region of Victoria, Australia**

 Ian D. Clark (Australia)

1. Agra 2004 congress proceedings

#  147 Preliminary results of the EIP Project

 Robert G. Bednarik (Australia), Giriraj Kumar (India), Alan Watchman and Richard G. Roberts

(Australia)

198 ***RAR* Debate**

198 The debate between GIPRI and the state agency ICANH, by Guillermo Muñoz

200 Comments by Matthias Strecker, B. K. Swartz, Jr, Roy Querejazu Lewis, Diego

 Martinez Celis, Emiro José Díaz Leal and Robert G. Bednarik

205 Reply by Guillermo Muñoz (Colombia)

207 Some notes on Saudi Arabian petroglyphs, by Georges E. Lombry (Belgium)

208 Reply to Lombry, by R. G. Bednarik (Australia) and M. Khan (Saudi Arabia)

209 **Brief Reports**

209 First direct dating of Saharan rock art, by R. G. Bednarik

210 More on Acheulian beads, by R. G. Bednarik

213 ***RAR* Review**

213 Book reviews by Denise Smith and Carol Patterson

216 Recent rock art journals

217 Recent books of interest — Recent papers of interest

219 **Orientation**

219 Calls for papers: IFRAO-UISPP Congress 2006, Lisbon, 4–9 September 2006

222 National conference on heritage, India — Australian rock art vandal fined — AURA Honour List

223 Back issues — New members

224 **IFRAO Report No. 35**

224 IFRAO’s progress — L’Art Rupestre: conservation, mise en valeur et communication

226 Summary report to Unesco

228 International Cupule Conference 2007

#### Volume 22, Number 1, May 2005

 3 **Seasonal revival rites and rock art of Minusinsk Basin colonisers (southern Siberia)**

 L. D. McNeil (U.S.A.)

1. **The Galería del Sílex (Sierra de Atapuerca, Burgos, Spain): AMS radiocarbon dates of post-Palaeolithic rock art**

M. García Diez, J. Martín i Uixan, M. A. Martín Merino and A. I. Ortega Martínez (Spain)

 23 **Biomorphs ‘playing a wind instrument’ in Andean rock art**

 Maarten van Hoek (Netherlands)

# Motif structure and Australian Aboriginal rock art analysis: an example from Gariwerd,

# Victoria

 R. G. Gunn (Australia)

 49 **Scientific studies of Saudi Arabian rock art**

Robert G. Bednarik (Australia) and Majeed Khan (Saudi Arabia)

 83 **Brief Reports**

 83 Late Horizon rock art in the Atacama Desert? A view from the Inka road

 José Berenguer R. and Gloria Cabello B. (Chile)

 87 Study of a Palaeolithic time capsule: the Chauvet Cave project Robert G. Bednarik (Australia)

 90 ***RAR* Review**

 90 Book reviews by Yann-Pierre Montelle, Margaret Bullen and Kalle Sognnes

 93 Recent rock art journals — Recent books of interest

 94 Recent papers of interest

 95 **Orientation**

 95 AURA Inter-Congress Symposium Cairns

 96 World rock art — The uses and abuses of archaeology for indigenous populations

 97 Tools of the trade — The archaeology of trade and exchange

 98 Australasian Archaeometry Conference — Alexander Marshack, 4 April 1918

 to 20 December 2004, by Leslie Van Gelder and Kevin Sharpe

100 ‘Bradshaw’ art — an interesting whodunit, or a matter of national importance? by Christopher Brown

104 **IFRAO Report No. 34**

104 Minutes of the 2005 IFRAO Business Meeting, New Delhi, India

105 Agra 2004: report of a magnificent rock art congress

107 Saving rock art: report of a conference

109 IFRAO Global State of the Art (Portugal 2006)

110 International Cupule Conference (Bolivia 2007)

111 Dampier rock art exhibition launched

112 IFRAO proposal for the Dampier rock art

#### Volume 21, Number 2, November 2004

111 **‘Aymara’ rock art of Lake Titicaca**

 Matthias Strecker and Freddy Taboada (Bolivia)

127 **Dating rock art: introduction to the papers from Symposium J, Third AURA**

 **Congresss, Alice Springs, 2000**

Alan Watchman, Guest Editor of the following papers

129 **Considerations on the dating of rock art from the Sierra de San Francisco, Baja**

 **California, Mexico**

 V. Magar and V. Davila (Mexico)

# 137 New evidence from the Côa valley, Portugal

 Robert G. Bednarik (Australia)

145 **Radiocarbon dating of ancient pictograms with accelerator mass spectrometry**

M. W. Rowe (U.S.A.)

155 **The beeswax rock art of the Northern Territory: direct dating results and a ‘book of record’**

 Paul S. C. Taçon (Australia), Erle Nelson (Canada), Christopher Chippindale (United Kingdom)

and George Chaloupka (Australia)

161  **Dating analysis of rock art in the Qinghai-Tibetan Plateau**

 Tang Huisheng and Gao Zhiwei (China)

173  **Dating of rock images in Wardaman country, Northern Territory, Australia**

 A. Watchman (Australia), J. Flood (Australia) and C. Chippindale (United Kingdom)

183 **Dating Kezar Lake pictograms**

 A. Watchman (Australia)

187 **Minimum age for a petroglyph on a boulder of significance in southern Kakadu National Park,**

**Northern Territory, Australia**

 A. Watchman (Australia)

196 ***RAR* Review**

196 Book reviews by Yann-Pierre Montelle, Dominique Ballereau and R. G. Bednarik

202 Recent rock art journals — Recent books of interest — Recent papers of interest

203 **Orientation**

203 AURA Inter-Congress Symposium — Percy J. Trezise AO honoured

204 AURA Honour List — Increase in subscriptions

205 Back issues — New members

206 **IFRAO Report No. 33**

206 New members of IFRAO — The Rock Art Preservation Fund

207 IFRAO’s Dampier Campaign

211 The Constitution of IFRAO

### Volume 21, Number 1, May 2004

3 **Petroglyphs of Kurdistan**

 Jamal Lahafian (Iran)

11 **From circle and square to the image of the world: a possible interpretation for some petroglyphs**

**of merels boards**

 Friedrich Berger (Germany)

# 27 Rock paintings of Mua Island: initial results from western Torres Strait

Liam M. Brady, Bruno David, Louise Manas and the Mualgal (Torres Strait Islanders) Corporation, and Ian McNiven (Australia)

47 **Large animals and small humans in the rock art of northern Australia**

David M. Welch (Australia)

57 **Line markings: human or animal origin?**

Kevin Sharpe (United Kingdom); with *RAR* Comments by Geoffrey D. Aslin, Robert G. Bednarik and R. G. Gunn; and author’s Reply.

85 ***RAR* Debates**

85 Replacement with deep roots (John L. Bradshaw)

85 Regarding Bednarik’s *RAR* Reply (Derek Hodgson)

87 Response to Bradshaw and Hodgson (Robert G. Bednarik)

89 **Brief Reports**

89 Some issues in the authentic display of rock art: the case of Fugoppe Cave (Thomas Heyd)

91 An introduction to the petroglyphs at Fugoppe Cave (Masaru Ogawa)

92 New cupule site in the Free State, South Africa (Maarten Van Hoek)

## 93 Re-recording culturally significant Aboriginal sites in south-western Australia as a guide to Noongar usage of the region in the past (Esmée Webb and R. G. Gunn)

98 ***RAR* Review**

98 Book reviews by Howard David Smith and Sven Ouzman

101 Recent rock art journals ⎯ Recent books of interest ⎯ Recent papers of interest

102 **Orientation**

102 Road extension threatens integrity of one of the largest Pueblo Indian petroglyph sites in the United

States (J. J. Brody)

104 Most Endangered Sacred Sites List ⎯ Networks and Narratives ⎯ Letter to the Editor

105 Forthcoming events

106 **IFRAO Report No. 32**

106 RASI-2004 International Rock Art Congress, Important new information

107 EIP Project second progress report (Robert G. Bednarik and Giriraj Kumar)

Volume 20, Number 2, November 2003

89 **The earliest evidence of palaeoart**

Robert G. Bednarik (Australia). With *RAR* Comments by Walter Bowyer, Adam Brumm, Kalyan

K. Chakravarty, Stephen W. Edwards, John Feliks, Lutz Fiedler, James B. Harrod, Derek Hodgson, Giriraj Kumar, Talia Shay, Lawrence Guy Straus and Thomas Wynn; and author’s Reply

137 **Saharan landscapes: contextualised rock art as a cultural heritage resource in Libya**

 Tertia Barnett (United Kingdom)

143 **Te Ana A Nunuku: re-viewing a Moriori petroglyph site in Rekohu (The Chatham Islands), New**

**Zealand**

 Eric Kjellgren (U.S.A.)

151 **The rock art of Toro Muerto, Peru**

 Maarten van Hoek (Holland)

171 ***RAR* Review**

171 Book reviews by Yann-Pierre Montelle, Denise Smith, B. K. Swartz, Jr, and

Walter J. Bowyer

180 Recent rock art journals

181 Recent books of interest ⎯ Recent papers of interest

182 **Orientation**

182 New rock art research association in Bolivia (Roy Querejazu Lewis)

183 Rock art images copyrighted ⎯ Southern African Association of Archaeologists

Meeting ⎯ 21st International Valcamonica Symposium

184 Alfred Muzzolini (1922−2003)

187 Forthcoming events

188 **IFRAO Report No. 31**

188 ‘Rock Art Research: Changing Paradigms’, RASI-2004 International Rock Art

Congress, Agra

192 Symposium/workshop rationales for Agra IFRAO Congress

Volume 20, Number 1, May 2003

3 **The biological foundations of Upper Palaeolithic art: stimulus, percept and representational**

**imperatives**

Derek Hodgson (United Kingdom). With *RAR* Comments by John Bradshaw, J. B. Deregowski, Thomas Heyd, Alice B. Kehoe, and Steven J. Waller; and author’s Reply

23 **Rock art management and education programs for site visitors: introduction to the papers**

**from Symposium E, Third AURA Congress, Alice Springs, 2000**

 Natalie Franklin, Guest Editor of the following papers

25 **‘But they are only puppets …’. Problems of management and educational programs in**

**Rock Engraving National Parks, Valcamonica and Valtellina, Lombardy, Italy**

 Angelo Fossati (Italy)

31 **Co-operation for education—filling the demand for educational tools: a joint Swedish-**

**Norwegian program for rock art education, information and tourism**

 Anne-Sophie Hygen (Norway)

34 **Community involvement in rock art site management in Namibia**

 Goodman Gwasira (Namibia)

37 **Education, museums and schools: new approaches in the Tanum World Heritage Area, Sweden**

 Camilla Olsson (Sweden)

41 **Visitor books—a tool for planning and evaluating visitor management at rock art sites**

 Ross Brown, Clarrie Flinders, Julie Swartz and Roger Wilkinson (Australia)

48 **Current initiatives in rock art management and public education in Queensland**

 Natalie Franklin (Australia)

53 **The Côa valley: research and management of a World Heritage rock art site**

 João Zilhão (Portugal). With *RAR* Comments by Mila Simões de Abreu, Luiz Oosterbeek, Marcel

Otte, Alan Watchman and Robert G. Bednarik

69 ***RAR* Debates**

69 Comments on R. J. Coffman’s ‘Voyagers of the Pacific’ (Pamela Russell and Peter Russell)

70 **Brief Reports**

70 2002 progress report of the EIP Project (Giriraj Kumar, Robert G. Bednarik, Alan Watchman,

Richard G. Roberts, Ewan Lawson and Carol Patterson)

72 ***RAR* Review**

72 Book reviews by Leigh Marymor, Margaret Bullen and Robert G. Bednarik

78 Recent rock art journals

79 Recent books of interest ⎯ Recent papers of interest

80 **Orientation**

80 Hamilton 2003: AURA Inter-Congress Symposium, 4−5 October 2003

82 Patricia Vinnicombe (1932−2003) (Ken Mulvaney)

83 Call for papers, 37th Annual Chacmool Conference ⎯ Forthcoming events ⎯ AURANET

84 **IFRAO Report No. 30**

84 New members of IFRAO ⎯ The 2004 IFRAO Congress: RASI-2004

85 The IFRAO-Brepols imprint ⎯ Second progress report of the EIP Project, April 2003

86 Former Yugoslav Republic of Macedonia ⎯ *Glossary of Rock Art Research*

Volume 19, Number 2, November 2002

79 **Voyagers of the Pacific: rock art and the Austronesian dispersal** (Part 2)

 Ralph J. Coffman, Jr. (U.S.A.)

 With *RAR* Comments by M. Wilson, C. Ballard and J.-M. Chazine, and by Jim Specht; and author’s Reply

105 **Renovations of ancient compositions by modern indigenous visitors in Altai, southern**

 **Siberia: vandalism or creation?**

 D. V. Cheremisin (Russia)

109 **Investigating finger flutings**

 Kevin Sharpe with Mary Lacombe and Helen Fawbert (United Kingdom)

117 **Mudgegonga-2 and the rock art of north-east Victoria**

 R. G. Gunn (Australia)

133 **Brief Reports**

133 The Murujuga Campaign of 1868 (Robert G. Bednarik)

135 A bead from the Mousterian site at Fontmaure, France (Herman van der Made)

136 New cupule rock art at Twyfelfontein, Namibia (Maarten van Hoek)

137 An Acheulian palaeoart manuport from Morocco (Robert G. Bednarik)

139 AURA Inter-Symposium 2003

140 ***RAR* Reviews**

140 Book reviews by Bruno David and R. G. Bednarik

141 Recent rock art journals

142 Recent books of interest – Recent papers of interest

143 **Orientation**

143 Report on the conference L’art avant l’histoire, Paris, May 2002 (Alan Watchman)

143 MA in Archaeology – Prehistoric Rock Art at the University of Durham (U.K.)

144 Sixth International Symposium on Rock Art, Jujuy, Argentina, late 2003

145 WAC-5, 21–26 June 2003 — Forthcoming events — Notes

146 New AURA members

147 **IFRAO Report No. 29**

147 Guadiana report

148 Dampier report

150 Summary of the IFRAO submission to the National Native Title Tribunal

Volume 19, Number 1, May 2002

3 **Petroglyphs of the Dampier Archipelago: background to development and descriptive analysis**

 Patricia Vinnicombe (Australia)

28 AURANET operational

29 **The survival of the Murujuga (Burrup) petroglyphs**

 Robert G. Bednarik (Australia)

41 **Voyagers of the Pacific: rock art and the Austronesian dispersal** (Part 1)

 Ralph J. Coffman, Jr. (U.S.A.)

68 ***RAR* Review**

68 Commentary, by Majeed Khan

68 Recent rock art journals

69 Recent books of interest – Recent papers of interest

70 **Orientation**

70 AURANET

71 World’s largest rock art studies literature database

72 Forthcoming events – Notes

73 AURA Inter-Congress Symposium

74 **IFRAO Report No. 28**

74 Report of the International Workshop on Conservation and Documentation of Rock Art in Tanzania, 13–20 January 2002

76 Program of the EIP Project – Guadiana update

Volume 18, Number 2, November 2001

75 **When rock art comes into being: on the recognition and acceptance of new discoveries**

Kalle Sognnes (Norway), with Comments by Robert G. Bednarik, J. B. Deregowski, Knut

Helskog, Gro Mandt, Eva Walderhaug Saetersdal; and author’s Reply

91 **The taphonomy of beeswax figures**

 Robert G. Bednarik (Australia)

96 **The stepped ‘diamond’ in Andean rock art**

 Maarten van Hoek (Netherlands)

101 **From real to abstract or vice versa—material culture and cultural beliefs**

 Talia Shay (Israel)

106 A new service for Australian members of AURA

107 **Visitor books and visitor numbers in the Grampians National Park**

R. G. Gunn (Australia)

113 **Brief Reports**

113 Batu Tulis: a petroglyph site in west Java, Indonesia (Tony Djubiantono, Mike J. Morwood and

Agus)

115 An Acheulian figurine from Morocco (Robert G. Bednarik)

117 ***RAR* Review**

117 Book reviews by Alan Watchman and M. J. Rowland

120 Recent rock art journals

123 Recent books of interest – Recent papers of interest

125 **Orientation**

125 Announcing AURANET – Special service for AURA members

126 passion (Miriel Lenore) – WAC Inter-Congress

127 La Conservation de l’Art Préhistorique (Paris)

128 Letters to the Editor – Forthcoming events – Note

131 **IFRAO Report No. 27**

131 International Union for Prehistoric and Protohistoric Sciences motion for the Guadiana rock art in

Portugal – Response by the Director of the Instituto Português de Arqueologia

133 IFRAO Congress Venue Commission

134 New IFRAO members – Fezzan, Libya: conflict between oil field development and rock art

(Friedrich Berger)

136 IFRAO Standard Scale reprinted

138 Progress report of the EIP Project—November 2001

Volume 18, Number 1, May 2001

3 Rock paintings — wall paintings: new light on art tradition in central Asia

Zbigniew Jasiewicz and Andrzej Rozwadowski (Poland)

15 **Identification of minerals in pigments from Aboriginal rock art in the Laura and Kimberley**

**regions, Australia**

I. Ward, A. Watchman, N. Cole and M. Morwood (Australia)

24 **Dating the rock art of Vanuatu: AMS radiocarbon determinations from abandoned mud-wasp**

**nests and charcoal pigment found in superimposition**

Meredith Wilson, Matthew Spriggs and Ewan Lawson (Australia)

32 CARA launched

33 **The geoglyph of La Rueda del Indio, Chirgua, Venezuela**

Bernardo Urbani and Franco Urbani (Venezuela)

40 **Cultural images: the petroglyphs of a sandstone quarry, Helen Springs, Northern Territory,**

**Australia**

 Ken Mulvaney (Australia)

55 **Brief Reports**

55 Pilbara petroglyphs dated (Robert G. Bednarik)

58 Mineralogical and chemical analyses of an ochred rock, Ngarrabullgan Cave (N. Qld, Australia)

(Rosemary Goodall and Bruno David)

60 New group of rock art sites in Spain: the petroglyphs of Manzenez Mill (Alconchel, Badajoz)

(Hipólito Collado Giraldo)

62 **Orientation**

62 Report on the AURA 2000 Kimberley Tour with David Welch — Re-opening of Tandjesberg San

Rock Art National Monument — Course of specialisation in pre-Historic and tribal art

64 Letters to the Editor — Forthcoming events — Notes — New AURA members

68 **IFRAO Report No. 26**

Rock art discovery in the Alqueva dam zone of the river Guadiana in Spain and Portugal (Mila

Simões of Abreu) — IFRAO International Workshop on Conservation and Documentation,

Tanzania (Fidelis Masao) — IRAC 2002 (Dushko Aleksovski) — IFRAO-Brepols — The Early

Indian Petroglyphs Project (Robert G. Bednarik)

Volume 17, Number 2, November 2000

83 Editorial

85 **Surface structure analysis of runic inscriptions on rock.** **A method for distinguishing between**

**individual carvers**

Laila Kitzler (Sweden)

99 Rapa Nui cupules: voices of a disintegrating society?

Maarten van Hoek (Holland)

111 **Central Australian rock art: a second report**

R. G. Gunn (Australia)

127 ***RAR* Debates**

127 An artist’s perspective (Brian Langevad)

127 Consciousness, art and communication (Michael Eastham)

128 Hand grip or art: tribal or individual? (David M. Welch)

129 Reply to David M. Welch (Daniel Kaufman)

131 **Brief Reports**

131 Earliest known Historical rock art in Australia (Robert G. Bednarik)

133 Lichenometry and rock art (Robert G. Bednarik)

136 ***RAR* Review**

136 Book reviews by Bruno David, Robert G. Bednarik and M. J. Rowland

139 Recent rock art journals — Recent books of interest — Recent papers of interest

142 **Orientation**

142 The Third AURA Congress: a personal view (Jack Steinbring) — Participants of the Third AURA

Congress — Letters to the Editor — Fifth International Rock Art Symposium in Bolivia — Notes

— Forthcoming events

147 Rock Art Glossary

157 **IFRAO Report No. 25**

The IFRAO Code of Ethics — Commentary — Minutes of the 2000 IFRAO Business Meeting,

Alice Springs, Australia

Volume 17, Number 1, May 2000

3 **Art, perception and information processing: an evolutionary perspective**

Derek Hodgson (United Kingdom), with Comments by Robert G. Bednarik, John L. Bradshaw,

Paul Faulstich, Sylvia Fein, John Feliks, Elery Hamilton-Smith and Andrew Sherratt; and author’s

Reply

35 **Bon rock paintings at gNam mtsho: glimpses of the ancient religion of northern Tibet**

John Vincent Bellezza (U.S.A.)

56 **Spencer and Gillen’s contribution to Australian rock art studies**

R. G. Gunn (Australia)

65 **Brief Reports**

65 ‘Archaeologically dated Palaeolithic rock art’ at Fariseu, Côa valley

65 Fariseu rock art not archaeologically dated (Mila Simões de Abreu and Robert G. Bednarik)

68 Symposia of the Third AURA Congress

69 **Orientation**

69 Third AURA Congress — Short Field Trips Program — Additional major field trips

72 Response to the Cairns Declaration: a code of ethics for AURA (Noelene Cole and Graeme K. Ward)

75 Notes — Forthcoming events — New AURA members

77 **IFRAO Report No. 24**

IFRAO: the first dozen years — New IFRAO members — Fifth International Rock Art Symposium, Bolivia, September 2000 — Skopje 2002

Volume 16, Number 2, November 1999

75 **Radiocarbon analyses of rock paintings: Hueco Tanks, Texas**

Marian Hyman, Kay Sutherland, Marvin W. Rowe, Ruth Ann Armitage and John R. Southon

(U.S.A.)

89 **The analysis of scan sequences embedded in Palaeolithic parietal images**

Michael Eastham (United Kingdom), with Comments by John L. Bradshaw, J. B. Deregowski,

Andrée Rosenfeld and Ann Sieveking; and author’s Reply

109 **A unique engraved object from the Epipalaeolithic of Israel**

Daniel Kaufman (Israel)

113 **Pre-Historic open-air rock art in Galicia, north-west Spain: characteristics and principal**

**iconography**

Roberto Vázquez Rozas (Spain)

127 **Brief Reports**

127 ‘Bradshaws’ — an eastern province?

Paul S. C. Taçon, Ken Mulvaney, Richard Fullagar and Lesley Head (Australia)

129 Obituary on Wadi Sora?Friedrich Berger (Germany)

131 ***RAR* Review**

131 With contributions by R. G. Bednarik

133 Recent rock art journals — Recent books of interest — Recent papers of interest

135 **Orientation**

Third AURA Congress — Call for papers: the symposia of the Third AURA Congress — Congress

field trips — Moroccan Association for the Protection of the Rupestrian Heritage — 5th

International Rock Art Sympo­sium, Bolivia, September 2000 —Forthcoming events

145 **IFRAO Report No. 23**

 Proceedings of the 1995 International Rock Art Congress, Turin — IRAC ‘99: A few words from

the organiser (Jack Steinbring) — The Third AURA Congress — Field trips — Events —

Registration — Further information

Volume 16, Number 1, May 1999

3 **Towards an understanding of Pälaqwan rock drawings: between visual and verbal expression**

Dario Novellino (Italy)

25 **The environment and condition of multi-layered Aboriginal paintings at Kennedy-A in the wet**

**tropics, north Queensland**

I. Ward, C. Patterson and A. Watchman (Australia)

36 **Rock art protection in Bolivia**

Matthias Strecker and Freddy Taboada (Bolivia)

42 **Rocks, motifs and techniques: a re-evaluation of a ‘unique’ petroglyphs site in Norway**

Kalle Sognnes (Norway)

50 ***RAR* Debates**

50 On Huyge’s possible representations of fish-traps in Upper Egyptian rock art (A. Muzzolini)

51 El-Hosh revisited (Dirk Huyge)

53 **Brief Reports**

53 The Camunian Rose (Bjarne Stig Hansen)

55 The first Regional Training Course on Rock Art Painting Conservation for SE Asia and the Pacific,

Indonesia (Bruno David)

57 ***RAR* Review**

57 With contributions by Hugh Cairns and R. G. Bednarik

60 Recent rock art journals — Recent books of interest — Recent papers of interest

63 **Orientation**

Third AURA Congress — Call for papers: the symposia of the Third AURA Congress — Call for posters — Forthcoming events

70 **IFRAO Report No. 22**

 The Third AURA Congress — Objectives — Academic program — Events — Field trips —

Registration — Accommodation and bookings — Further information — News in brief

**Volume 15, Number 2, November 1998**

75 **Patterned hand prints: a unique form from central Australia**

 R. G. Gunn (Australia)

81 **Mobiliary art from the Late Epipalaeolithic of the Negev, Israel**

 A. N. Goring-Morris (Israel)

89 **New Palaeolithic cave art in Cueva de el Pendo, Cantabrian Region, Spain**

 Ramón Montes Barquín, Juan Sanguino González, Antonio J. Gómez Laguna and Carlos G. Luque

(Spain)

98 **Searching for hidden images: rock art geography in Stjørdal, Trøndelag, Norway**

 Kalle Sognnes and Anne Haug (Norway)

109 **The impact of fossils on the development of visual representation**

 John Feliks (U.S.A.), with Comments by Robert G. Bednarik, John L. Bradshaw, Elery Hamilton-

Smith and Lawrence Guy Straus; and author’s Reply

135 ***RAR* Debates**

135 Fishing in the Sahara (Barbara E. Barich)

135 ‘Where are the fish?’: piscatorial representations in central Saharan and Egyptian rock art

 (Dirk Huyge)

139 Footnote on the technology of petroglyphs (R. G. Bednarik)

141 **Orientation**

The Third AURA Congress — Some of the symposia at the Third AURA Congress — Rock art

and ecological knowledge — Dating rock art — Epistemology and rock art research — News of

the World II - IRAC 2000: Call for posters — Forthcoming events — New AURA members

145 **IFRAO Report No. 21**

‘Crossing frontiers’: IRAC 1998, Vila Real, Portugal — Symposium rationales, IRAC 1999: Calls

for papers — Semiotics, signs, symbols and mysticism in rock art — Computer technology as an

aid to rock art research, site management and education — Landscape, place and rock art — The

human figure in rock art — Arte rupestre de Sudamerica: Estudo actual

**Volume 15, Number 1, May 1998**

3 **Possible representations of Palaeolithic fish-traps in Upper Egyptian rock art**

 Dirk Huyge (Belgium), with Comments by Friedrich Berger, Achilles Gautier and Jean-Loïc Le

Quellec; and author’s Reply

12 **Effect of water on Lower Pecos River rock paintings in Texas**

 Elmo J. Mawk and Marvin W. Rowe (U.S.A.)

17 **Sex, lies and symbolic behaviour**

 M. J. Morwood (Australia)

23 **The technology of petroglyphs**

 Robert G. Bednarik (Australia)

36 **Composition and source of dust on Split Rock paintings, Australia**

 Alan Watchman (Australia)

41 **A multivariate approach to characterise the groove shape of the linear parts of petroglyphs**

 Franco Urbani (Venezuela)

46 ***RAR* Debates**

46 Shamanism and Upper Palaeolithic art: a response to Bahn (J. D. Lewis-Williams and J. Clottes)

51 **Reviews**

 With contributions by Bruno David, Jack Steinbring and Robert G. Bednarik

54 Recent rock art journals

57 Recent books of interest

58 Recent papers of interest

61 **Orientation**

Minutes of the 1998 AURA Meeting — ‘Making a mark’: the AURA Inter-Congress Symposium

1998 — ‘Crossing frontiers’, Portugal, calls for papers — 1999 International Rock Art Congress

IFRAO-ARARA-MAGF, call for session proposals — Rock art education symposium 1999, call

for papers — AURA 2000, the Third AURA Congress — Forthcoming events — Notices

71 **IFRAO Report No. 20**

 ‘Crossing frontiers’: International Rock Art Congress 1998 and ‘98 IFRAO Meeting, Portugal

 Volume 14, Number 2, November 1997

79 **A Middle Palaeolithic engraved artefact from Qafzeh Cave, Israel**

Erella Hovers (Israel), Bernard Vandermeersch (France) and Ofer Bar-Yosef (U.S.A.)

88 **Fight or dance? Ceremony and the spearthrower in northern Australian rock art**

 David M. Welch (Australia)

113 **Authentication of rock art in the Whitsunday Islands, Queensland, Australia**

Bryce Barker, Katharine Sale and Alan Watchman (Australia)

124 **Rock art, occupation and myth. The correspondence of symbolic and archaeological sites within**

**Arrernte rock art complexes of central Australia**

R. G. Gunn (Australia)

136 ‘Crossing frontiers’. IRAC 1998 and ‘98 IFRAO Meeting

137 **Rock Art Bytes**

137 Digitised recording of petroglyphs in Poesia Cave, Italy

 D. Bertani, A. Capanni, M. Cetica, L. Pezzati and C. Pagliara (Italy)

143 ***RAR* Debates**

143 Minor reservations (N. Chandramouli)

143 Daraki-Chattan: an important site (Robert G. Bednarik)

144 Future research at Daraki-Chattan (Giriraj Kumar)

145 **Reviews**

 With contributions by Ian J. McNiven and Claire Smith

147 Recent books of interest — Recent papers of interest

148 **Orientation**

 Making a Mark: AURA Inter-Congress Symposium 1998 — Other forthcoming events —

 The 1997 SIARB rock art congress — New AURA members

151 **IFRAO Report No. 19**

 1999 International Rock Art Congress: Ripon, Wisconsin, U.S.A., 23 - 31 May 1999 — The

IFRAO Home Page — Activity reports: Cooperativa Archeologica ‘Le Orme dell’Uomo’, Mid-

America Geographic Foundation

Volume 14, Number 1, May 1997

3 **The distribution of cup-and-ring motifs along the Atlantic seaboard of Europe**

Maarten van Hoek (Holland)

18 **AMS radiocarbon age estimates for early rock paintings in the Kimberley, N.W. Australia:**

**preliminary results**

A. L. Watchman, G. L. Walsh, M. J. Morwood and C. Tuniz (Australia)

26 Obituary: Professor John Halverson

27 **The role of Pleistocene beads in documenting hominid cognition**

Robert G. Bednarik (Australia)

41 Ostrich eggshell beads in southern Africa, by H. C. Woodhouse (South Africa)

44 **Rock Art Bytes**

44 The International Rock Art Database Project

Henry Walt, Bruno David, John Brayer and Chris Musello (U.S.A./Australia)

50 The Alta Conference on Rock Art (ACRA II)

51 ***RAR* Debates**

51 From Hell to Inferno (Bjarne Stig Hansen)

53 Unfair criticism of Peterborough project (Bruce Ford)

55 Hear nothing, see nothing, say nothing? (P. G. Bahn, R. G. Bednarik and J. Steinbring)

58 Phillip V. Tobias Essay Competition No. 7, 1997/1998 (H. C. Woodhouse)

59 **Brief Reports**

59 The message stick: an anecdote (Michael Pickering)

59 An unexpected spectacular find (Jan Jelínek)

61 **Reviews and Abstracts**

 With contributions by Andrée Rosenfeld and R. G. Bednarik

62 Membrane and numb brain: a close look at a recent claim for shamanism in Palaeolithic art

(Paul G. Bahn)

68 Recent books of interest — Recent papers of interest

69 **Orientation**

 Minutes of the 1997 AURA Meeting — ‘Crossing frontiers’: IRAC 1998 and ‘98 IFRAO Meeting

— Other forthcoming events — Notices

72 **IFRAO Report No. 18**

 Minutes of the 1997 IFRAO Meeting — An evaluation of rock art conservation practices at Foz

Côa, northern Portugal (B. K. Swartz, Jr.) — An investigation of the Portuguese government

policies on the management of the Foz Côa sites (B. K. Swartz, Jr.)

Volume 13, Number 2, November 1996

83 Editorial

85 **A nano approach to the study of rock art: ‘The Walkunders’, Chillagoe, north Queensland,**

**Australia**

Alan Watchman and Elizabeth Hatte (Australia)

93 **Pigment Analyses from Panther Cave, Texas**

Marian Hyman, Solveig A. Turpin and Michael E. Zolensky (U.S.A.)

104 **Material culture in Kimberley rock art, Australia**

 David M. Welch (Australia)

124 **Palaeoindian bedrock petroglyphs at Epullán Grande Cave, northern Patagonia, Argentina**

 Eduardo A. Crivelli Montero and Mabel M. Fernández (Argentina), with Comment by R. G.

Bednarik

129 ***RAR* Debates**

129 Ethical and conservation issues in removing lichens from petroglyphs, by Alice M. Tratebas

and Fred Chapman (U.S.A.)

133 Response to Alice M. Tratebas and Fred Chapman, by Beverly Childers (U.S.A.)

134 **Brief Reports**

134 Cave Paintings in Yunnan, China, by Peng Fei (Japan)

137 More on massive intervention: the Aspeberget structure, by Paul G. Bahn (United Kingdom) and

Anne-Sophie Hygen (Norway)

139 **Reviews and Abstracts**

 With contribution by R. G. Bednarik ⎯ Recent books of interest ⎯ Recent papers of interest

142 **Orientation**

AURA Inter-Congress Symposium ⎯ Melbourne symposium field trips ⎯ Archaeometry

conference ⎯ Other forthcoming events ⎯ Input sought for heritage guidelines ⎯ Obituary:

Professor Herbert F. Nowak ⎯ Clarification ⎯ New AURA members

148 **IFRAO Report No. 17**

 Let’s save Toro Muerto (Peru) ⎯ Institutum Canarium ⎯ New IFRAO member: Eastern States

Rock Art Research Association ⎯ The Meeting in Machias, Maine ⎯ Rationale for SIARB

Symposium 5: Administration and conservation of rock art ⎯ SIARB International Rock Art

Congress

Volume 13, Number 1, May 1996

3 **What to do on a rainy day: reminiscences of Mirriuwung and Gadjerong artists**

Ken Mulvaney (Australia)

21 **A review of the theory and assumptions in the AMS dating of the Foz Côa petroglyphs, Portugal**

 Alan Watchman (Australia)

30 AURA incorporated

31 **Analysis of white pigments from the Olary region, South Australia**

 E. J. Mawk, M. F. Nobbs and M. W. Rowe (U.S.A. and Australia)

37 AURA Inter-Congress Symposium

38 **Daraki-Chattan: a Palaeolithic cupule site in India**

 Giriraj Kumar (India)

46 Bolivia 1997

47 ***RAR* Debates**

47 Who’s right? Whose right? By Margaret Bullen (Australia)

48 An Australian perspective of the Peterborough project, by N. Franklin (Australia)

49 Conservation, intervention or destruction of rock art? By A.-S. Hygen (Norway)

52 Structure protects rock art, by I. N. M. Wainwright (Canada)

54 Peer review of massive intervention, by P. G. Bahn, R. G. Bednarik and J.Steinbring (U.K.,

Australia, U.S.A.)

60 An Aboriginal perspective of J. B. Deregowski’s article, by L. Bursill (Australia)

61 Response to Les Bursill’s Comment, by J. B. Deregowski (U.K.)

62 Côa debate required, by M. Leigh Marymor (U.S.A.)

63 Côa debated at last! By R. G. Bednarik (Australia)

66 Comment on ‘The row and the circle’, by R. G. Bednarik (Australia)

67 Reply to Bednarik, by Hermione Kechagia (Greece)

67 A further Comment on Kechagia’s paper, by A. A. Faradjev (Russia)

68 **Brief Reports**

68 Human nature and rock art production, by Clement W. Meighan (U.S.A.)

70 Further rationales for symposia of the International SIARB Congress in 1997

71 **Reviews and Abstracts**

 With contribution by Matthias Strecker, Claire Smith and R. G. Bednarik ⎯ Recent rock art

journals

76 **Orientation**

 Rock art dating workshop, SARARA 1996, Namibia ⎯ Symposium ‘Rock art and zoology’,

SARARA 1996, Namibia ⎯ Forthcoming events

77 **IFRAO Report No. 16**

 Minutes of the 1995 IFRAO Meeting, Turin, Italy ⎯ NEWS95 International Rock Art Congress ⎯

New IFRAO members: Mid-America, Moscow Centre, StoneWatch, Verein Anisa

Volume 12, Number 2, November 1995

75 **An improved procedure for the photographic enhancement of rock paintings**

James Wilson Henderson (U.S.A.)

86 **The age of the Côa valley petroglyphs in Portugal**

 Robert G. Bednarik (Australia)

104 **Recent petroglyphs, Foz Côa, Portugal**

 Alan Watchman (Canada)

109 **The row and the circle: semiotic perspective of visual thinking**

 Hermione Kechagia (Greece)

117 **Regional patterning in the Aboriginal rock art of central Australia: a preliminary report**

 R. G. Gunn (Australia)

128 Submissions concerning the Cairns Declaration

129 **Rock Art Bytes**

129 IFRAO calibration system as a plug-in (Robert Mark and Evelyn Newman)

129 Colour re-constitution options (R. G. Bednarik)

130 AURA joins the World Wide Web!

131 **Brief Reports**

131 Additional remarks on the Berekhat Ram figurine, by N. Goren-Inbar and S. Peltz (Israel)

133 The earliest rock art in the Americas: North America, by Jack Steinbring (Canada)

134 The earliest rock art in the Americas: South America, by Juan Schobinger (Argentina)

136 The earliest palaeoart — a world perspective, by R. G. Bednarik (Australia) and P. G. Bahn

(United Kingdom)

137 **Reviews and Abstracts**

 With contribution by R. G. Bednarik – Recent rock art journals – Recent books of interest – Recent

papers of interest

140 **Orientation**

 Minutes of the 1995 AURA Meeting – Obituary – Letters to the editor – Forthcoming events –

Notices – New AURA members – AURA Inter-Congress Symposium February 1997

145 **IFRAO Report No. 15**

 The Constitution of IFRAO – IFRAO addresses – International Conference of SARARA in

Swakopmund, Namibia

Volume 12, Number 1, May 1995

3 **Perception – depiction – perception, and communication: a skeleton key to rock art and its**

**significance**

 J. B. Deregowski (United Kingdom), with Comments by John Clegg, John Halverson, Claire Smith

and Paul S. C. Taçon; and author’s Reply

23 **Beeswax rock art in the Kimberley, Western Australia**

 David Welch (Australia)

29 **The Peterborough petroglyph site: reflections on massive intervention in rock art**

 Paul G. Bahn (United Kingdom), Robert G. Bednarik (Australia) and Jack Steinbring (Canada)

42 **Digital colour re-constitution in rock art photography**

 Robert G. Bednarik (Australia) and Kulasekaran Seshadri (India)

52 **Reviews and Abstracts**

 With contributions by Bruno David, William R. McGlone, Phillip M. Leonard, James L. Guthrie

and Robert G. Bednarik

57 Recent rock art journals

60 Recent books of interest

61 Recent papers of interest

64 **Orientation**

 Forthcoming events – Notices – Constitution of AURA

68 **IFRAO Report No. 14**

 Member’s progress report: RASI – Rock Art Congress NEWS 95 – Rock Art Research: Moving

into the Twenty-first Century (SARARA conference) – The Hell’s Canyon saga continues

Volume 11, Number 2, November 1994

79 **The dating potential of rock art in the Kimberley, N.W. Australia**

 M. J. Morwood, G. L. Walsh and A. Watchman (Australia/Canada)

88 **San trance performances documented in the ethnological reports and rock paintings of southern**

**Africa**

 Harald Pager (South Africa)

101 **Long-term lichen-removal experiments and petroglyph conservation: Fremont County,**

**Wyoming, Ranch Petroglyph Site**

 Beverly Booth Childers (U.S.A.)

113 ***RAR* Debates**

113 Foresighting rock art, by Kalle Sognnes (Norway)

115 Reply to Kalle Sognnes, by Jack Steinbring and Maurice Lanteigne (Canada)

117 Dating intervention? by Alan Watchman (Canada)

118 Epistemology and Palaeolithic rock art, by Robert G. Bednarik (Australia)

120 Taphonomic considerations of rock art acoustics, by Steven J. Waller (U.S.A.)

122 Art rupestre et processus géomorphologiques élémentaires, by François X.

 Soleilhavoup (France)

124 The diversity of `petrographic’ rock markings, by Robert G. Bednarik (Australia)

126 **Brief Reports**

126 Zambia’s rock art heritage retrieved (Lunda F. J. Sinkamba)

127 Dating charcoal paintings and drawings from Chillagoe: current research (Bruno David, Marvin

Rowe, Claudio Tuniz and John Head)

129 **Reviews and Abstracts**

 With contributions by Ivan P. Haskovec, Bert Woodhouse, R. G. Bednarik, W. R. McGlone, P. M.

Leonard and J. L. Guthrie

138 **Orientation**

 Rock art and archaeoastronomy, conference report by W. Breen Murray – First RASI Congress, by

Giriraj Kumar – Bolivian Exhibition `Rock art - world heritage’, by M. Strecker – Rock art at the

World Archaeological Congress 3, by R. G. Bednarik – Indigenous Cultural Heritage Protection

Program in Australia – Obituary: Professor Elisabeth Schmid, by Inge Diethelm – RAR referees –

Life members – Letters to the editor – Forthcoming events – Notices – New AURA members

148 **IFRAO Report No. 13**

 Members’ progress reports: AARS, ARAPE, AURA, EARARA, GE.FE.BI., RARAC, Société

Préhistorique Ariège-Pyrénées, SIARB – Comments on minutes – Agenda for 1995 IFRAO Meeting – Rock Art Congress NEWS 95 – Colour re-constitution achieved!

Volume 11, Number 1, May 1994

3 **Contemporary indigenous use of traditional rock art sites at Yaraque, Bolivia**

Roy Querejazu Lewis (Bolivia)

10 **Handy household hints for archaeological excavations at rock art sites**

M. J. Morwood (Australia)

13 **Space, place and territory in rock art interpretation. An integration of concepts of space and**

**their application to an unusual petroglyph locality in the Great Basin, U.S.A.**

B. K. Swartz, Jr and Thomas S. Hurlbutt (U.S.A.)

23 **The discrimination of rock markings**

Robert G. Bednarik (Australia)

45  **Birds of Cosquer Cave. The Great Auk *(Pinguinus impennis)* and its significance during the**

**Upper Palaeolithic**

Francesco d’Errico (United Kingdom - Italy)

58 **Magdalenian bison in the caves of the Ariège**

Jean Clottes (France), Marilyn Garner (U.S.A.) and Gilbert Maury (France)

71 **Brief Reports**

71 The ANTARES AMS spectrometer. Accelerators and lasers for dating rock art in Australia

Claudio Tuniz and Alan Watchman (Australia)

74 **IFRAO Report No. 12**

Notes from informal IFRAO meeting. New Delhi, India, 7 December 1993 – Introducing the

IFRAO Standard Scale – International Rock Art Congress in Pinerolo and Turin, Italy, 30 August

to 8 September 1995

Volume 10, Number 2, November 1993

 83 **Theory and methods in Chinese rock art studies**

 Tang Huisheng (China)

 91 **Sound reflection as an explanation for the content and context of rock art**

 Steven J. Waller (U.S.A.), with Comments by Paul G. Bahn, Jean Clottes and Jack Steinbring; and

author’s Reply

102 **Natufian figurines from the new excavations of the el-Wad Cave, Mt Carmel, Israel**

 Mina Weinstein-Evron and Anna Belfer-Cohen (Israel)

107 **Which way you look. Rock art, a dilemma for contemporary custodians**

 Ken Mulvaney (Australia)

114 **The birth of a new scientific discipline**

 Osaga Odak (Kenya), with Comments by Elery Hamilton-Smith, Colin Pearson, W. K. Subbo,

Robert G. Bednarik and Leunita A. Muruli; and author’s Reply

126 **Dating intervention**

 Andrew Thorn (Australia)

132 ***RAR* Debates**

132 More on blue paint, by B. K. Swartz, Jr (U.S.A.)

132 The roles of those who serve rock art, by B. K. Swartz, Jr

134 **Brief Reports**

134 Zalavruga’s petroglyphs and the prehistoric ego (Arsen A. Faradjev)

138 About cupules (Robert G. Bednarik)

140 **Reviews and Abstracts**

 With contributions by Robert G. Bednarik and María Mercedes Podestá

148 **Orientation**

 Notes on archaeology and rock art research in north-west and central India, by M. J. Morwood –

Forthcoming events – `Make ‘em bright’. Aboriginal re-marking of rock art in past and present

Australia, by Katharine Sale – Obituary: Alex R. Willcox, by H. C. (Bert) Woodhouse – Notices –

New AURA members

153 **IFRAO Report No. 11**

 Rock Art - World Heritage, International ARARA Congress – News ‘95 - International Rock Art

Congress – Rock art studies: new approaches – First RASI Congress

Volume 10, Number 1, May 1993

 3 **The archaeology of Upper Palaeolithic art: aspects of uniformitarianism**

 David W. Cameron (Australia), with Comments by Bernard M. J. Huchet, Daniel Tangri, Robert G.

Bednarik and John Halverson, and author’s Reply

 18 **Rock art in Gabon: petroglyphs in the Ogooué river valley**

 Richard Oslisly (France)

 24 **Early `naturalistic’ human figures in the Kimberley, Australia**

 David Welch (Australia)

 38 ***RAR* Debates**

 38 Reply to Comments and an update on the Victoria River District, by Howard P. McNickle

 40 More information about South Australian cation-ratio dates, by Alan Watchman

 41 **Brief Reports**

 Australian papers presented at Yinchuan, China, 1991 (ed. Graeme K. Ward)

 41 Australian rock pictures in China and the Helan Shan petroglyphs (Graeme K. Ward)

 47 Address to opening session of First Conference of the Rock Art Research Association of China

(Robert G. Bednarik)

 48 The direct dating of rock art (Robert G. Bednarik)

 51 Why people draw circles (Margaret Bullen)

 55 Gap Hill. A new Simple Figurative engraving site in western New South Wales (John Clegg)

 58 Blue paints in prehistory (Noelene Cole and Alan Watchman)

 61 Stencil art on the Woronora Plateau (Caryll Sefton)

 65 Conservation of rock imagery in Australia: funding support, protection projects and related

research (Graeme K. Ward)

 68 **Reviews and Abstracts**

 With contributions by Patricia Vinnicombe, Robert G. Bednarik and Jan Jelínek

 75 **Orientation**

 Minutes of the Second General Meeting of AURA, by Yvonne Forrest - Letter to the Editor -

Schipfer Award - Forthcoming events

 78 **IFRAO Report No. 10**

 Minutes of the Third Business Meeting of IFRAO, by Robert G. Bednarik - Three new members of

IFRAO - Addresses of IFRAO Representatives

Volume 9, Number 2, November 1992

 87 **Coherence - a constituent of `scenes’ in rock art. The transformation of linguistic analytical**

**models for the study of rock paintings in Namibia**

 Tilman Lenssen-Erz (Germany), with Comments by Shirley Chesney, John Clegg and Bernard M.

J. Huchet, and author’s Reply

106 **Investigating the cation-ratio calibration curve: evidence from South Australia**

 Alan Watchman (Australia)

111 **La dichotomie sociale sexuelle dans les figurations humaines magdaléniennes. Une conception**

**naturaliste … propos du modèle français**

 Jean-Pierre Duhard (France)

119 **First report of digital fluting from Melanesia. The cave art site of Kalate Egeanda, Southern**

**Highlands Province, Papua New Guinea**

 Chris Ballard (Australia)

122 **A well-dated Palaeolithic cave: the Cosquer Cave at Marseille**

 Jean Clottes, Jean Courtin and Hèléne Valladas (France)

130 ***RAR* Debates**

130 The graphical presentation of statistical data for the assessment of edge angle variance of

Palaeolithic `art mobiliar’ engravings, by Maurice P. Lanteigne

131 The study of engraved notches and their statistical analysis, by Francesco d’Errico

132 Diversity and relativity in meaning, by Michel Lorblanchet

134 Carve your name with pride? Visitor behaviour at Blacks Palace art site complex, Central

Queensland Highlands, by Luke Godwin

137 Rock art of southern Africa: an under-utilised data base, by H. C. Woodhouse

139 **Brief Reports**

139 An AMS date for north Queensland rock art (Bruno David)

141 Spanish cave art proved a fake (Paul G. Bahn)

142 **Reviews and Abstracts**

 With contributions by Robert G. Bednarik, Paul G. Bahn, Robin Fletcher and Paul S. C. Taçon

147 **Orientation**

 Second AURA Congress, Academic Keynote Address: Science, and aesthetics, and the promise of

rock art, by Jack Steinbring - The Second AURA Congress: a summary - List of congress

participants - The Cairns Declaration - Forthcoming conferences - New AURA members

158 **IFRAO Report No. 9**

 Minutes of the Second Business Meeting of IFRAO, by Shirley-Ann Pager - IFRAO draft

constitution, by Ben Swartz - IFRAO Business Meetings 1992-1998 - Two new members of

IFRAO - RARAC forges ahead in China - RASI rock art festival in India - SIARB education

campaign - Busy year for AURA - The founding of IFRAO

Volume 9, Number 1, May 1992

3 **‘Curious drawings’ at Cape York Peninsula. An account of the rock art of the Cape York**

**Peninsula region of north-eastern Australia and an overview of some regional characteristics**

 Noelene Cole and Bruno David (Australia)

27 **Painting with plants. Investigating fibres in Aboriginal rock paintings at Laura, north**

**Queensland**

 Noelene Cole and Alan Watchman (Australia)

37 ***RAR* Debates**

37 An innovative analytical technology: discussion of its present and potential use, by Alexander

Marshack

59 A reply to Alexander Marshack, by Francesco d’Errico

65 A reply to Peter Jackson, by Jack Steinbring and Maurice Lanteigne

67 PPEF or ppiffle? by Paul G. Bahn

68 Pefology: a new scientific discipline, by Osaga Odak

69 Ethnographic clarifications: a response to Hromnik and Willcox, by Pieter Jolly

72 A reply to Pieter Jolly, by Cyril A. Hromnik

74 **Brief Reports** (including one rationale for Cairns symposium)

74 Nurrabullgin - `A mountain, once seen, never to be forgotten’

 John Grainer, Bruno David, Roger Cribb, Bruce White and Hilary Kuhn

77 Management of rock imagery

 B. Ford, G. K. Ward and B. Ware

78 **Orientation**

 CAIRNS ‘92: Final Announcement - Field trips - Notices - The Käthe and Franz Schipfer

Foundation

82 **IFRAO Report No. 8**

 The First SARARA International Conference (Maurice P. Lanteigne) - Third Business Meeting of

IFRAO - Two new French members of IFRAO - Notices - Threat to Hazaribagh rock art (Robert G.

Bednarik)

Volume 8, Number 2, November 1991

 83 **Microscopic and statistical criteria for the identification of prehistoric systems of notation**

 Francesco d’Errico (France), with Comment by Robert G. Bednarik, and author’s Reply

 94 **The use of graffiti in the monitoring of community attitudes towards Aboriginal rock art**

 M. J. Morwood and Y. Kaiser-Glass (Australia)

 99 **A testament to the shamanistic hallucinatory trance theory of the southern African rock art**

 Cyril A. Hromnik (South Africa), with Comment by J. D. Lewis-Williams, and author’s Reply

109 **Rock art of Russian Lapland**

 Vladimir J. Shumkin (Russia)

113 **Indigenous art and the limits of social science**

 Kingsley Palmer (Australia)

119 **Palaeolithic art from China**

 Robert G. Bednarik (Australia) and You Yuzhu (China)

124 ***RAR* Debates**

124 San informants on the practice of rock art in the Transkei, South Africa, by A. R. Willcox

127 Style, statistics and the Karolta petroglyphs, by Maurice P. Lanteigne

130 On form and meaning in rock art research, by Bruno David and Josephine Flood

131 Rock painting sizes in the Kimberley and Victoria River District, by Grahame L. Walsh

133 **Brief Reports** (including rationales for Cairns symposia)

133 Bead-like fossils from an Acheulian occupation site, Israel (N. Goren-Inbar, Z. Lewy and M. E.

Kislev)

136 A new petroglyph recording method (Eve Selisaar)

137 The dating of rock art (Alan Watchman and Jack Steinbring)

137 Preservation of rock art (Andrew Thorn and Nicholas Stanley Price)

138 The ethics of rock art research (Robert G. Bednarik and Mario Consens)

138 Workshops on management: indigenous experiences and perceptions

139 **Reviews and Abstracts**

 With contributions by Patricia Vinnicombe, Paul G. Bahn, Bjarne Stig Hansen, Bernard M. J.

Huchet, Alicia A. Fernández Distel and Claire Smith

149 **Orientation**

 CAIRNS ‘92: Third Announcement - Notices - New AURA members

154 **IFRAO Report No. 7**

 IIIrd International Rock Art Symposium in Bolivia (Matthias Strecker) - International rock art

congress in U.S.A. - 1994 - Notices

Volume 8, Number 1, May 1991

 3 **A new name for a new discipline**

 Osaga Odak (Kenya), with Comments by Emmanuel Anati, John Clegg and Mario Consens;

with author’s Reply.

13 **The petroglyphs of West Yorkshire. Explorations in analysis and interpretation**

 Jack Steinbring and Maurice Lanteigne (Canada), with Comment by Peter Jackson

29 **Rock art at Huashan, Guangxi Province, China**

 Li Fushun (China)

33 **Petroglyphs from central India**

 R. G. Bednarik (Australia), G. Kumar (India) and G. S. Tyagi (India)

36 **A survey of rock art in the Victoria River District, Northern Territory**

 Howard P. McNickle (New Zealand)

47 ***RAR* Debates**

47 A reply to Davidson on Mania and Mania, by Alexander Marshack.

58 Further Comment on Tangri 1989, by Bernard M. J. Huchet, with Reply by Daniel Tangri

61 Carnivore traces or Mousterian skiffle? by Francesco d’Errico, with Reply by Dirk Huyge

65 **Brief Reports** (Rationales for Cairns symposia)

65 Rock art studies: the post-stylistic era. Where do we go from here? (Michel Lorblanchet and Paul

Bahn)

66 Rock art and information exchange (Claire Smith)

68 Rock art studies as a curriculum for teaching (Giriraj Kumar and Osaga Odak)

68 The rock art of the Sahara (Alfred Muzzolini)

69 Spatial considerations in rock art (Paul Faulstich)

70 **Reviews and Abstracts**

 With contributions by A. R. Willcox, Robert G. Bednarik, Dominique Sacchi and Heino Eelsalu

73 **Orientation**

 CAIRNS ‘92: Second Announcement - Darwin congress proceedings - AURA Exhibition -

Membership fees - Chacmool 1990: a post-impressionist view (Maurice P. Lanteigne) - Notices

78 **IFRAO Report No. 6**

 IFRAO Keywords: international standardisation of keywords for rock art (Dario Seglie) - The

IFRAO Standard Scale (R. G. Bednarik) - Code of ethics for sample removal - Destruction of rock

art sites: IFRAO emergency plan - Rock Art Research Association of China formed (Chen Zhao

Fu) - Notices

Volume 7, Number 2, November 1990

 83 **Investigating 14C AMS: dating prehistoric rock art in the Sydney Sandstone Basin, Australia**

 Jo McDonald, Kelvin Officer, Tim Jull, Doug Donahue, John Head and Bruce Ford

(Australia - U.S.A.)

 93 **The sheep in Saharan rock art**

 Alfred Muzzolini (France), with Comments by A. Gautier, Jan Jelínek, François Soleilhavoup and

Angela von den Driesch; with author’s Reply

110 **The bichrome art period in the Kimberley, Australia**

 David Welch (Australia), with Comment by Darrell Lewis, and author’s Reply

125 **Mousterian skiffle? Note on a Middle Palaeolithic engraved bone from Schulen, Belgium**

 Dirk Huyge (Belgium)

133 ***RAR* Debates**

133 Further Comment on Duhard 1989, by Robert G. Bednarik, with Reply by Jean-Pierre Duhard

140 Further Reply on Mania and Mania 1988, by Dietrich Mania and Ursula Mania

142 **Brief Reports**

142 Recent rock art research at Laura, north Queensland (Noelene Cole)

143 Some thoughts on spatial organisation in prehistoric rock art (Douglas Mazonowicz)

145 **Reviews and Abstracts**

 With contributions by Michel Lorblanchet, Kalle Sognnes and Robert G. Bednarik

151 **Orientation**

 CAIRNS ‘92: the Second AURA Congress - Pâté with the President - Notices - New AURA

members

154 **IFRAO Report No. 5**

 First rock art symposium in Soviet Union - New IFRAO member - Changes in ARARA leadership

- India forging ahead - Threat to Cuevas de Borbón, Dominican Republic - Recent and forthcoming

events - Rock art tour of the U.S.S.R.

Volume 7, Number 1, May 1990

 3 Editorial

 4 **Palaeolithic pigments in the Quercy, France**

 Michel Lorblanchet, Michel Labeau, J. L. Vernet, P. Fitte, H. Valladas, H. Cachier and M. Arnold

(France)

21 **New light on the Niaux paintings**

 Jean Clottes, Michel Menu and Philippe Walter (France)

27 **The identification of cicatrices depicted on anthropomorphs in the Laura region, north**

**Queensland**

 Bernard M. J. Huchet (Australia)

44 **A summary of occurrences of oxalate-rich crusts in Australia**

 Alan Watchman (Australia)

51 ***RAR* Debates**

51 Reply, Nobbs and Dorn 1988, by Margaret F. Nobbs and Ronald I. Dorn

52 Further Comment on Mania and Mania 1988, by Iain Davidson

56 Further Comments on Marshack 1989, by J. B. Deregowski, Jack Steinbring and Maurice

Lanteigne, A. R. Willcox, J. D. Lewis-Williams and T. A. Dowson

67 Further Comments on Tangri 1989, by Robert G. Bednarik and Mats P. Malmer; with Reply by

Daniel Tangri

74 **Brief Reports**

74 New dates from Fern Cave, Cape York Peninsula (Bruno David)

75 An Acheulian haematite pebble with striations (Robert G. Bednarik)

76 **Reviews and Abstracts**

 With contributions by Paul G. Bahn, Kalle Sognnes and Howard P. McNickle

78 **Orientation**

 Letters to the editor - Notices - New AURA members

79 **IFRAO Report No. 4**

 Rock Art Society of India formed - IIIrd International Rock Art Symposium in

 Bolivia - SARARA Conference 1991 - Cairns ‘92 - Rock art tour of India.

Volume 6, Number 2, November 1989

83  **!Science, hypothesis testing and** **prehistoric pictures**

Daniel Tangri (Australia), with Comments by Paul Faulstich, Jarl Nordbladh, Kingsley Palmer and

B. K. Swartz; with author’s Reply

96 **Judds Cavern: a subterranean Aboriginal painting site, southern Tasmania**

Richard Cosgrove and Rhys Jones (Australia)

104 The Post-Graduate Diploma Course in Rock Art Conservation (Alan Watchman)

105 **La gestuelle du membre supérieur dens les figurations féminines sculptées paléolithiques**

Jean-Pierre Duhard (France), with summary and Comment by Paul G. Bahn; and author’s Reply

118 **The Galgenberg figurine from Krems, Austria**

Robert G. Bednarik (Australia)

126 **The Australian Institute of Aboriginal Studies’ Rock Art Protection Program: discussion of the first two years’ projects**

Graeme K. Ward (Australia)

139 ***RAR* Debates**

139 Further Comments on Mania and Mania 1988, by Phillip J. Habgood, Dietrich Mania and Ursula

Mania, and Robert G. Bednarik

145 Further Comments on Nobbs and Dorn 1988, by Maurice P. Lanteigne and John Clegg

149 Further Comment on Marshack 1989, by G. Sauvet

151 **Brief Reports**

151 An Aboriginal view of rock art management (David Mowaljarlai and Alan Watchman)

153 Prehistoric rock art of southern Cape York Peninsula (Bruno David)

155 The Archaeology of Aboriginal Art in S.E. Cape York: preliminary report on the 1989 fieldwork

(Mike Morwood)

156 AURA Explorers Expeditions

157 **Orientation**

157 Preparations for the Second AURA Congress: first progress report (R. G. Bednarik)

158 The AURA Exhibition: call for proposals

159 Notices

159 **IFRAO Report No. 3**

160 Archival data sharing network: a response (Clement W. Meighan)

Volume 6, Number 1, May 1989

3  **A study of petroglyphs in Qinghai Province, China**

Tang Hui-sheng (People’s Republic of China)

11 Groupe d’Etudes, de Recherches et de Sauvegarde de l’Art Rupestre (GERSAR)

12 **Colour space transformations for the enhancement of rock art images by computer**

Michael R. Rip (U.S.A.), with Comments by Mario Consens and Jeffrey L. Dickman

17 **Methodology in the analysis and interpretation of Upper Palaeolithic image: theory versus**

**contextual analysis**

Alexander Marshack (U.S.A.), with Comment by J. D. Lewis-Williams and T. A. Dowson

54 **The Australian** **Institute of Aboriginal Studies Rock Art Protection Program**

Graeme K. Ward and Sharon Sullivan (Australia)

63 ***RAR* Debates**

Further Comments on Nobbs and Dorn 1988, by John Clarke and Alan Watchman; with Reply by

Margaret F. Nobbs and Ronald I. Dorn

68 **Brief Reports**

68 Plaques as Palaeolithic slates: an experiment to reproduce them (Pamela M. Russell)

69 The status of rock art research in north-western California (E. Breck Parkman)

71 The archaeology of Aboriginal art in S.E. Cape York: a research proposal (Mike Morwood)

73 **Reviews and Abstracts**

With contributions by Robert G. Bednarik and E. Breck Parkman

77 **Orientation**

77 Second International Rock Art Symposium in Bolivia (Matthias Strecker)

77 ICOM Working Group on Rock Art Conservation (Andrée Rosenfeld)

78 Notices, AURA Exhibition, Forthcoming rock art events, Second AURA Congress

79 **IFRAO Report No. 2**

80 Proposed IFRAO projects

Volume 5, Number 2, November 1988

91 **Deliberate engravings on bone artefacts of *Homo erectus***

Dietrich Mania and Ursula Mania (German Democratic Republic), with Comments by Paul G.

Bahn, Robert G. Bednarik, Iain Davidson, Whitney Davis, Alexander Gallus and John Halverson;

with authors’ Reply.

107 Sociedad de Investigación del Arte Rupestre de Bolivia (SIARB)

108 **Age determinations for rock varnish formation within petroglyphs: cation-ratio dating of 24**

**motifs from the Olary region, South Australia**

Margaret F. Nobbs (Australia) and Ronald I. Dorn (U.S.A.) With Comments by Robert G.

Bednarik, John Clegg, D. Dragovich, and Steven L. Reneau and Charles D. Harrington; with

authors’ Reply.

146 Vishnu Sridhar Wakankar, 4 May 1919 — 3 April 1988. Obituary by S. K. Pandey.

147 **Rock pictures of the Chillagoe-Mungana limestone belt, north Queensland**

Bruno David and Maree David (Australia)

157 ***RAR* Debates**

Further Comments on Gonzalez Garcia 1987, by John Halverson, Reynaldo Gonzalez Garcia and

Paul G. Bahn

162 Two videotapes available

163 **Brief Reports**

163 Reflections on the First AURA Congress (Jack Steinbring)

164 Darwin’s AURA: the congress and the excursion (Paul G. Bahn)

166 The Getty Conservation Institute Course on Rock Art Conservation, Los Angeles, 18–30 April

1988 (Andrée Rosenfeld)

168 **Reviews and Abstracts**

With contributions by John Halverson, E. Breck Parkman and Matthias Strecker

171 **Orientation**

171 Tasmanian hand stencils (R. G. Bednarik)

171 Séminaire international ‘representations préhistoriques’ (Denis Vialou)

171 Notices

172 Letter to the Editor

172 New AURA members

174 **IFRAO Report No. 1**

174 International Federation of Rock Art Organizations formed (Robert G. Bednarik)

175 Indian Rock Art Research Association formed (S. K. Pandey) - Soviet Union

176 Japan - People’s Republic of China

176 Proposal for an IFRAO archival data sharing network (Maurice P. Lanteigne)

Volume 5, Number 1, May 1988

3 **Identifying** **fish species in the recent rock paintings of western Arnhem Land**

Paul S. C. Taçon (A.C.T.)

16 **Rock art sequences: a matter of clarification**

Frederick D. McCarthy (N.S.W.); with Comments by John Clegg, Bruno Davil, Natalie R.

Franklin, Josephine McDonald, Lesley Maynard, David R. Moore, M. J. Morwood, Andrée

Rosenfeld and Robert G. Bednarik; with author’s Reply.

43 **Engraved ostrich eggshell objects: new evidence of Upper Palaeolithic art in India**

Giriraj Kumar, Geeta Narvare and Ramesh Pancholi (India), with Comments by B. D. Nandadeva,

Gajendra S. Tyagi and V. S. Wakankar; with authors’ Reply.

54 **Arte mobiliar con tradición rupestre en el Sur del Peru**

Eloy Linares Mälaga (Peru), with English synopsis and Comment by Roy Querejazu Lewis.

66 Graduate Diploma Course on the Conservation of Rock Art

67 **Brief Reports**

67 Rock art and prehistory (Paul G. Bahn and Andrée Rosenfeld)

67 Rock art and ethnography (Mike Morwood)

69 Retouch: an option to conservation? (Graeme Ward)

69 First rock paintings in Amazon Basin (Mario Consens, with Editor’s response)

72 The Hupa calendar stones at Takimitlding and Medilding, north-western California (E. Breck

Parkman)

75 **Reviews and Abstracts**

With contributions by Darrell Lewis, Deborah Rose and Jack Steinbring.

83 **Orientation**

83 First rock art symposium in Bolivia (Roy Querejazu Lewis) - Seminaire international

representations préhistoriques (Denis Vialou) - Rock art session, Annual Meeting of the Society for

California Archaeology (E. Breck Parkman)

84 Rock Art Association of Manitoba formed (Jack Steinbring) - Rock Art Association of Hawaii

formed - The Rock Art Archive, University of California, Los Angeles

85 Darwin 1988 - Third Announcement, First AURA Congress

88 Notices - Letter to the Editor

Volume 4, Number 2, November 1987

91 **Rock art of the Koolburra Plateau, north Queensland**

Josephine M. Flood (A.C.T.), with Comments by John Clegg, M. J. Morwood, Andrée

Rosenfeld and P. J. Trezise; with author’s Reply

127 **Organisation, distribution and typology of the cave art of Monte del Castillo, Spain**

Reynaldo Gonzalez Garcia (Spain) With Comments by Paul G. Bahn, Antonio Beltrán, Masaru

Ogawa and Jack Steinbring; with author’s Reply

136 Rock art conservation course in California

137 **The dating of Zimbabwean rock art** Nicholas J. Walker (United Kingdom)

150 ***RAR* Debates**

Remainder of authors’ initial Reply to Comments on Steinbring, Danziger and Callaghan 1987;

with further Comments by David S. Whitley and Robert G. Bednarik, and Steinbring’s Reply to

Whitley

162 **Brief Reports**

162 Rock art and ‘archaeopsychology’ — rationale for a symposium (Whitney Davis)

164 Silica skins: a panacea or a dream for rock art conservators (Alan Watchman)

165 **Reviews and** **Abstracts**

165 Reviews by Hilary Sullivan, R. G. (Ben) Gunn, Paul G. Bahn and Jack Steinbring

169 Abstracts

170 **Orientation**

170 The 1987 ARARA Symposium - a landmark in American rock art studies (R. G. Bednarik)

170 VIII Simposium Internacional de Arte Rupestre Americano (R. G. Bednarik)

171 Report of the lCOM Working Group on the Conservation of Rock Art (Andrée Rosenfeld)

171 Rock art session, Third Annual California Indian Conference (William D. Hyder)

172 Australian rock art film launched

172 Fifth International Conference on Hunting and Gathering Societies, Darwin 1988

172 Asamblea General, SIARB

173 Darwin ‘88 - Second Announcement. First AURA Congress, Darwin, August - September 1988

179 Notices

180 New AURA members

Volume 4, Number 1, May 1987

3 **Middle Archaic Petroglyphs in Northern North America**

Jack Steinbring (Canada), Eve Danziger (U.S.A.) and Richard Callaghan (Canada), with Comments

by A. P. Buchner, Jeffrey L. Dickman, William D. Hyder and L. Loendorf; with part of the

authors’ Reply

17 **Termite and wasp damage to Australian rock art**

J. A. L. Watson and J. M. Flood (A.C.T.), with appendix by I. D. Naumann and J. A. L. Watson

29 **Human picturing behaviour and the study of prehistoric pictures**

John Clegg (New South Wales)

36 **Internal** – **external: a re-evaluation of the ‘x-ray’ concept in western Arnhem Land rock art**

Paul S. C. Taçon (A.C.T.)

51 ***RAR* Debates**

51 Further Comment on Bahn 1986, by Georgia Lee; with author’s Reply.

56 **Brief Reports**

56 The 1986 AURA Franco-Cantabrian Field Trip: summary report (Steve Brown)

60 Arte rupestre e identidad en Arequipa (Eloy Linares Málaga)

63 The Spear Hill Rock Art Complex: an Update (Howard P. McNickle)

65 **Reviews and Abstracts**

73 Abstracts

81 UCLA Rock Art Publications

82 **Orientation**

82 Sociedad de Investigación del Arte Rupestre de Bolivia - Southern African Rock Art Research

Association

83 Prince Rainier III of Monaco Scholarship - Private grants for field research

84 Conservation information network, The Getty Conservation Institute - Rock art conservation

seminar in Spain

85 Darwin 1988: First AURA Congress - North American Subcommittee - 5th International

Conference on Hunting and Gathering Societies

86 ICOM Rock Art Meeting

87 Other forthcoming events - We quote

88 Notices

###### Volume 3, Number 2, November 1986

99 **No Sex, Please, we’re Aurignacians**

Paul G. Bahn (England), with Comments by John Clegg, Jean Olottes, Paul Faulstich, Heinz

Hunger, and Alexander Marshack; with author’s Reply

121 **Stochastic vs emblemic: an archaeologically useful method for the analysis of style in Australian**

**rock art**

Natalie R. Franklin (Victoria), with Comments by Whitney Davis, Josephine McDonald, Kelvin

Officer, Anne-Marie Pessis, Paul S. C. Taçon, and Bruce Wright; with author’s Reply

141 **A plague of locusts, or manna from heaven? Tourists and conservation of cave art in southern**

**France**

D. Dragovich (New South Wales), with Comments by Paul G. Bahn, Jacques Brunet, Jean Clottes,

Fay Gale, Jane Jacobs, David Lambert, Michel Lorblanchet and François Soleilhavoup; with

author’s Reply

158 Rock Art Protection Project by Australian Institute of Aboriginal Studies

158 Publications on rock art, University of California, Los Angeles

159 ***RAR* Debates**

159 Further Comments on Bednarik 1986, by Elery Hamilton-Smith, Jean Olottes, and Paul Faulstich;

with author’s Reply

170 Further Comments on Gale and Jacobs 1986, by Jacques Brunet and Pierre Vidal, Josephine Flood,

and Howard P. McNickle; with authors’ Reply

175 Further Comment on Marshack 1985, by Jean Clottes; with author’s Reply.

177 Further Comments on Soleilhavoup 1985, by J. Brunet and J. Vouvé, and François Rambeau; with

author’s Reply

184 8th Triennial Meeting of the ICOM Committee for Conservation

184 Rock Art Seminar and Field Trip, Sydney 1987

185 **Brief Reports**

185 Comments on rock art recording (Clement W. Meighan)

186 Rock art and environment: observations at Depuch Island (Sally E. Minchin)

190 **Review**

192 **Orientation**

192 Darwin 1988 - The First AURA Congress
194 Organising the 1988 AURA Congress
195 News in Brief
195 Letter to the Editor
196 New AURA Members

Volume 3, Number 1, May 1986

3 **Identifying high-risk visitors at Aboriginal art sites in Australia**

Fay Gale and Jane Jacobs (South Australia), with Comments by C. Pearson, B. K. Swartz Jr, Sharon

Sullivan, R. G. Gunn and Grahame L. Walsh, with authors’ Reply

19 Rock Art Seminar and Field Trip - Sydney, September 1987

20 **The searching intellect of man: map, model, chart**

Hugh Cairns (New South Wales), with Comments by John Clegg, George F. Carter, Donald Brook

and W. J. Jobling, with author’s Reply

30 **Parietal finger markings in Europe and Australia**

Robert G. Bednarik (Victoria), with Comments by Whitney Davis, P. G. Bahn, David R. Moore and Alexander Gallus

62 ***RAR* Debates**

62 Further Comments on Marshack 1985, by Michel Lorblanchet, Brigitte and Gilles Delluc, and Ann

Sieveking, with Alexander Marshack’s Reply to these and previous Comments

82 Further Comment on Soleilhavoup 1985, by Michel Lorblanchet, with François Soleilhavoup’s

Reply to this and previous Comments

87 Further Comment on van Ryssen 1985, by N. Walker, with W. J. J. van Ryssen’s Reply to this and

previous Comments

90 Who’s Who in Rock Art

91 **Reviews and Abstracts**

93 **Orientation**

93 Rock Art Symposium at A.A.A. Conference, Valla Park, November 1985 (David R. Moore)

95 Congreso Internacional de Arte Rupestre - Zaragoza (Fay Gale)

95 Forthcoming events: The World Archaeological Congress, Southampton 1986 - Proposed Franco-

Cantabrian field trip by AURA - A.A.A. Conference 1986 - VIII Simposium Internacional de Arte

Rupestre Americano - 11th IUPPS Congress, Mainz 1987

96 Notices: private grants - Information exchange arrangements - Cave art tours - Visitors -

Subscription dues

Volume 2, Number 2, November 1985

95 **Theoretical concepts that lead to new analytic methods, modes of inquiry and classes of data**

 Alexander Marshack (U.S.A.), with Comments by John Clegg, Paul Faulstich, Robert Layton,

 David R. Moore, Clement W. Meighan and Jack Steinbring

112 **Monitoring visitor behaviour at rock art sites**

 Fay Gale (South Australia)

118 UCLA Rock Art Archive

119 **Les paysages de l’art rupestre de plein air: vers une normalisation des méthodes d’étude et de**

**conservation**

François Soleilhavoup (France), with Comments by Josephine Flood, Whitney Davis, F. L. Virili

and Andrée Rosenfeld

140 **Facts and figures: notes on rock Art in the Mt Isa area, north-western Queensland**

M. J. Morwood (New South Wales)

146 **The origin of certain images in the rock Art of southern Africa**

W. J. J. van Ryssen (South Africa), with Comments by Bruce Wright, L. G. A. Smits, Osaga Odak

and David R. Moore

158 **Brief Reports**

158 Sydney Basin Aboriginal Heritage Study, Stage 1: Rock Engraving, Painting and Drawing Sites

(Josephine McDonald)

Mooraa Cave - a preliminary Report (G. D. Aslin and R. G. Bednarik)

166 **Reviews and Abstracts**

166 Reply by David Groenfeldt
167 Book Reviews
169 Abstracts

171 **Orientation**

171 The 1985 ARARA Symposium (Robert G. Bednarik)

173 Forthcoming events

174 Harald Pager, 1923 – 1985

175 Introducing: the International Committee on Rock Art (CAR)

176 Proposed AURA field trip to France and Spain

177 Letter to the Editor, and editorial response

178 **AURA NEWS**

New members Recent lectures - Canadian rock art specialist to be invited by AURA - Notices and

requests - Errata

Volume 2, Number 1, May 1985

3 **The significance of hand motif variations in the stencilled art of the Australian Aborigines**

Bruce Wright (New South Wales), with Comments by Paul Faulstich, David R. Moore, R. G.

Kimber, W. J. J. Van Ryssen, P. J. Trezise and Whitney Davis

19 Rock paintings on Australian stamps

20 **The interpretation of prehistoric art**

David Groenfeldt (Sri Lanka), with Comments by L. G. A. Smits, Alexander Gallus, Ann

Sieveking, J. L. Dickman, Bruce J. Wright, Donald Brook and John Clegg

47 Film documentary on rock art

48 **An introduction to the Spear Hill** **Rock Art Complex, north-western Australia**

Howard P. McNickle (New Zealand)

With Comments by Bruce J. Wright and Frederick D. McCarthy

65 **The role of conservation techniques in rock art preservation**

 Paul M. Schwartzbaum (Italy)

71 **Brief Reports**

71 The ‘Parietal Markings Project’ — a progress report (G. D. Aslin, E. K. Bednarik and R. G.

Bednarik)

74 Crocodile I Gallery, Laura (P. J. Trezise)

77 La chronologie de l’art pariétal néolithique Saharien — une note (A. Debaumarché, D. Trias, L. Le

Ribault, M. Schvoerer and F. X. Soleilhavoup)

79 **Reviews and Abstracts**

79 Comments on 1984 *RAR* papers, by F. X. Soleilhavoup, D. Dragovich, R. G. Bednarik and

Margaret Nobbs

83 Abstracts

85 **Orientation**

85 Conference on prehistoric rock art and archaeoastronomy, U.S.A. (Joseph J. Snyder)

86 Conference on Palaeolithic rock art: research and conservation, France (Josephine Flood)

87 Rock Art Preservation and Management Workshop, Australia

88 Forthcoming events

88 The Devil’s Rock Project

88 The problem of priorities (Les Groube)

89 Letters to the Editor, and editorial response

92 **AURA NEWS**

Subscription dues — Notices and requests

Volume 1, Number 2, November 1984

75 **An introduction to rock paintings in Yunnan** **Province (People’s Republic of China)**

Wang Ningsheng (China)

91 **Rock art in Olary Province, South Australia** Margaret Nobbs (South Australia)

119 **The state of Australian rock art research and** **conservation in 1980**

P. J. Hughes, J. Flood, S. Sullivan, D. Lambert, M. J. Morwood, P. J. F. Coutts, R. G. Gunn, D. A.

Gillespie, J. Clarke, W. R. Ambrose and J. L. Gordon

The 1980 Sydney Rock Art Conservation Workshop: opening statement

Rock art problems from the national point of view

New South Wales - rock art 1980

Deterioration of engraved and painted rock surfaces in New South Wales

Aboriginal art sites in Queensland: a summation

Rock art in Victoria

Objectives of the Victorian rock art recording program

Conservation of rock Art sites in the Kakadu National Park, Northern Territory

Rock art conservation — a research project in Western Australia

Site evaluation as a prerequisite to the management of art sites

A review of surface treatments for stone

141 **Brief Reports**

141 Preliminary report on the rock art of Ipoh, Malaysia (P. Faulstich)

142 Koorine Cave, South Australia (G. D. Aslin and R. G. Bednarik)

145 **Reviews and** **Abstracts**

With contributions by P. Faulstich, R. G. Gunn and A. Rosenfeld

150 **Orientation**

150 Xlth U.J.S.P.P. Congress
150 ARARA Symposia
151 Introducing: ARARA
152 Events
152 Letters to the Editor

153 **AURA NEWS**

Membership List - Statistical analysis of responses to Questionnaires - Notices and requests

Volume 1, Number 1, May 1984

3 Editorial

5 **Variation in style and distribution of rock engravings in the Pilbara region (Western Australia).**

Howard P. McNickle (New Zealand)

25 **An image digitising and storage system for use in rock art research**

Jeffrey L. Dickman (California)

35 Rock art summer school

36 **Karlie-ngoinpool Cave: a preliminary report**

Geoffrey D. Aslin (South Australia) and Robert G. Bednarik (Victoria)

46 **Research needs for physical conservation of rock art**

G. S. Gibbons (New South Wales)

50 **Reviews and Abstracts**

54 **Orientation**

54 Report of a meeting on rock art conservation (A. Rosenfeld, J. Golson, W. R. Ambrose and P.

Hughes)

60 Report of the XIth ICAES Congress (R.G. Bednarik)

63 Rock art conservation and the Australian Bicentennial (J. Golson)

64 Introducing: the ACASPP

65 Rock art conference in Canada

65 Petroglyphs stolen in Canada

66 Easter Island Congress

66 XIth Congress of the Union Internationale des Sciences Préhistoriques et Protohistoriques

67 Archaeological Tours

68 Second Australian Archaeometry Conference

68 Canadian Journal of Rock Art

68 Letters to the Editor

70 **AURA News**

Terminology - First General Meeting - Logo - ‘Registered Members’ - Membership and subscriptions - Request