



UNIVERSITEIT VAN AMSTERDAM  
*Amsterdam Archaeological Centre*

His Excellency The Ambassador of Turkey  
Mr. A.Karahan  
The Embassy of Turkey  
Jan Evertstraat 15  
2514 BS 's-Gravenhage

*Nieuwe Prinsengracht 130  
1018 VZ Amsterdam  
The Netherlands*

Amsterdam, December 28 2001  
Your reference:  
Our reference:  
Enclosure(s): attachment 1-5  
Regarding: *Nemrud Dağ Project*

AAC  
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Your Excellency,

Herewith I have the honour to present you the application for the license to carry out the second campaign of our Nemrud Dağ project for the restoration, excavation and protection in accordance with:

The decision of the Minister's Council no. 2001/2898 / Prime Ministry of the Turkish Republic as stated in the letter of the General Directorate for Laws and Decisions no. B 02.0.K. KG / 153-9 / 4074 (attachment 1).

After the first campaign and extended preliminary study and work in the Netherlands, we are ready to further implement our project on the mountain where the monument of the Commagenian King Antiochos is erected.

The Projectmanager is Prof. Dr. Herman A.G. Brijder, the acting Projectmanager is Dr. Eric M. Moormann, the assistant acting Projectmanager is Dr. M.J. Versluys, all of the University of Amsterdam

Enclosed are:

- The C.V. and a list of publications of Prof. Dr. Herman A.G. Brijder including scientific experience and specialisation (attachment 2).
- The C.V. and a list of publications of Dr. Eric M. Moormann including scientific experience and specialisation (attachment 2).
- The C.V. and a list of publications of Dr. Miguel J. Versluys including scientific experience and specialisation (attachment 2)
- The team list and the C.V. of each member (attachment 3).
- The 5+5 years programme for the Nemrud project in brief (attachment 4).
- A detailed plan for the 2002 campaign (attachment 5)

A site-office and container storage as discussed will be constructed in place. There will be a sufficient number of guardians available.



Provided the procedures are in time finished we would like to start the project at June 3, 2002 and to work for two months until the end of July.

I hope you find this information satisfactory. In case you might have any questions or remarks, please contact me.

Yours sincerely,

Prof. Dr. Herman A.G. Brijder  
(chair Classical Archaeology)



## Curriculum Vitae ATTACHMENT 2

### Curriculum Vitae of Prof. Dr. Herman A.G. BRIJDER

Born: 21-1-1945 in Amsterdam.

Study: Master's degree (cum laude) in Classical Archaeology and History of Ancient Art, University of Amsterdam, at 3-9-1973.

Doctoral degree (cum laude): 'Siana Cups I and Komast Cups', University of Amsterdam, at 14-12-1982.

Professor of Classical Archaeology and History of Ancient Art of the University of Amsterdam, since 1-9-1986.

Director of the Allard Pierson Museum, The Archaeological Museum of the University of Amsterdam, since 1-9-1986.

Editor-in-chief of the Allard Pierson Series, since 1979.

#### Excavation and fieldwork practice

Excavation of the Casa del Protiro in Ostia, Italy: campaigns in 1973, 1974, 1975.

Director of the excavations at Satricum, Italy: since 1990.

#### List of Publications

1973

'Een Attische Dierfriesschaal in het Allard Pierson Museum', Mededelingenblad Amsterdam 7 (1973) 6-8.

1974

'Black-Figure Cups in Amsterdam', BABesch 49 (1974) 105-16.

1975

'Attic Black-Figure Cups in Amsterdam and an Exchange with Heidelberg', BABesch 50,2 (1975) 157-77.

'Nolan Amphora by the Sabouroff Painter', BABesch 50,1 (1975) 30-32 (with J.M. Hemelrijk).

'Column Krater probably near the Alkimachos Painter', BABesch 50,1 (1975) 32-34 (with J.M. Hemelrijk).

'Villanova en Etrurië in Amsterdam', Mededelingenblad Amsterdam 10 (1975) 1-8.

Review O. Von Vacano, Zur Entstehung und deutung gemalter Seitenansichtiger Kopfbilder auf Schwarz-figurigen Vasen der griechischen Festlandes (Bonn, 1973) in BABesch 50 (1975) 292-93.

1976

(ed.) Selected Pieces, Allard Pierson Museum Amsterdam (Alkmaar 1976): 135 pp.

In: Selected Pieces: 54, 62, 68-72, 76, 108-20, 128.

(ed.) Griekse, Etruskische en Romeinse Kunst, Allard Pierson Museum Amsterdam (Culemborg 1976): 187 pp.

In: Griekse, Etruskische en Romeinse Kunst: 'De Etrusken', pp. 86-114; 'De Romeinen', pp. 115-150 (with M.L.E. Schuurman).

'Vijf votiefgeschenken in bruikleen', Mededelingenblad Amsterdam 11 (1976) 7-8.

1977

'A Bronze Ankle-Guard and Belt in Amsterdam', Festoen, Festschrift A.N. Zadoks-Josephus Jitta (Groningen-Bussum 1977) 187-194 (with a contribution by H.E. Frenkel).

De Etrusken, een syllabus (Amsterdam 1977): 71 pp.

1978

'Twee nieuwe sfinxen in het Allard Pierson Museum', Mededelingenblad Amsterdam 16 (1978) 1-3.

(ed.) Een Romeins Huis in Amsterdam (Amsterdam 1978): 126 pp.

'Een Romeins Huis', Hermeneus 50,2 (1978) 131-132.

1979

'Beazley and the Shape of Siana Cups', Schriften des Deutschen Archäologen-Verbandes IV, Bericht vom Symposium des Deutschen Archäologen-Verbandes, 'Vasenforschung nach Beazley', Tübingen, 24.-26. 11. 1978 (Mainz 1979) 15-17.

1981

Review C.B. Boulter and K.T. Luckner, CVA The Toledo Museum (1976) in Mnemosyne 34, 1-2 (1981) 199-201.



1982

(ed.) Hoe klassiek is Amsterdam, Classicisme en Klassieke Vormtaal in de Amsterdamse Bouwkunst (Alkmaar 1982): 87 pp.

'Hoe Klassiek is Amsterdam, Klassieke Vormen in Amsterdamse Gebouwen', Hermeneus 54,3 (1982) 190-200.  
Siana Cups I and Komast Cups (Diss. Amsterdam 1982). Deel I, Text: 494 pp.; Deel II, Plates: 108 pp.; totaal: 602 pp.

1983

'A Komast Cups', Occasional Papers on Antiquities, 1: Greek Vases In the J. Paul Getty Museum, Vol. 1 (1983) 1-8 (samen met P.J. Connor, Melbourne).

Siana Cups I and Komast Cups, Allard Pierson Series Vol. 4 (Amsterdam 1983); extended ed. of diss. 1982. I, Text: 316 pp.; II, Plates: 104 pp.: totaal 420 pp.

1984

(ed.) Proceedings of the International Symposium, 'Ancient Greek and Related Pottery', Allard Pierson Series Vol. 5 (Amsterdam 1984): 344 pp.

'Changing The Subject: Evidence on Siana Cups', Proceedings Symposium Amsterdam (zie 25), 248-251.

(ed.) Griekse, Etruskische en Romeinse Kunst, Allard Pierson Museum (Alkmaar 1984); uitgebreide versie van id. 1976: 207 pp.

Griekse, Etruskische en Romeinse Kunst (zie 27), 32-33, 105-109, 112, 142.

'Two Etruscan Centaurs?', BABesch 59,2 (1984) 54-59.

'Een Etruskische kantharos', Mededelingenblad Amsterdam 32 (1984) 2-5 (with S. Telling).

'Bronzen sieraden van een Etruskische dame uit Veii, zevende eeuw v. Chr.', Mededelingenblad Amsterdam 32 (1984) 6-8 (with R. van Beek).

'Een helm en een paar enkelbeschermers, vijfde eeuw v. Chr.', Mededelingenblad Amsterdam 32 (1984) 9-13.

'Een Etruskische bronzen spiegel uit het eind van de vierde eeuw v. Chr., Parisoordeel of Ontmoeting van Paris en Helena?', Mededelingenblad 32 (1984) 16-20 (with J.T. Smit-Lub).

1985

'The Paintings in the House of the Porch' in Johannes S. Boersma e.a., Amoenissima Civitas. Block V.ii at Ostia: description and analysis of its visible remains (Assen 1985) 271-280.

'The Sculpture of the House of the Porch' in Johannes S. Boersma e.a. Amoenissima Civitas (zie 34) 280-291.

'Een bikonische asurn', Mededelingenblad Amsterdam 33 (1985) 1-5.

'Realistisch of geïdealiseerd? Een Romeins vrouweportret uit de Tiberische tijd', Lampas 18,1 (1985) 77-96.

'Een Etruskische jongeman en een Romeinse vrouw: twee soorten portretten', Mededelingenblad Amsterdam 35 (1985) 1-9.

'Vier vroeg-Etruskische voorwerpen', Mededelingenblad Amsterdam 35 (1985) 16-20.

1986

'War and Peace on a New Siana Cup by the Ainipylos Painter', Mythologie und Vasenmalerei, Festschrift K. Schauenburg (Mainz 1986) 21-28.

'A Pre-Dramatic Performance of a Satyr Chorus by the Heidelberg Painter', in Enthousiasmos, Essays on Greek and Related Pottery presented to J.M. Hemelrijk, Allard Pierson Series Vol. 6 (Amsterdam 1986) 69-82.

(ed.), with A.A. Drukker, C.W. Neeft, Enthousiasmos Essays on Greek and Related Pottery presented to J.M. Hemelrijk, Allard Pierson Series Vol. 6 (Amsterdam 1986): 220 pp.

(ed. and chapters), Rijk en Hemels Aardewerk, Mededelingenblad Amsterdam 37-38 (1986): 32 pp.

Apen op het toneel?, Ikologische interpretatie van voorstellingen op Griekse vazen uit de zesde eeuw v. Chr. (oratie, Amsterdam 1986): 20 pp.

1987

'Groen Pompeii: illusie en werkelijkheid', Lampas 20, 1 (1987) 85-98.

'Voetenbankje voor een Etruskische dame', Mededelingenblad Amsterdam 39 (1987) 14-18.

'An Etruscan Terracotta Footstool from the Fifth Century B.C. in Amsterdam', BABesch 62 (1987) 67-74.

1988

'Op één been kan men niet lopen', Mededelingenblad Amsterdam 43 (1988) 27-30.

'Politieke motieven in de Griekse kunst uit de 6de en 5de eeuw voor Chr.', Spiegel Historiae 23, 7/8, (1988) 331-335 (with J. Beelen).

'The Shapes of Etruscan Bronze Kantharoi from the Seventh Century B.C. and the Earliest Attic Black-figure kantharoi', BABesch 63 (1988) 103-114.

1989

De Etrusken (with J. Beelen, L.B. van der Meer), exhib. cat. Allard Pierson Museum, 28 okt. 1989 - 25 febr. 1990 (Den Haag 1989): 220 pp.

'Thesan, de Etruskische godin van het morgenrood', Mededelingenblad Amsterdam 45 (1989) 12-17 (samen met P.S. Lulof).

'De Etrusken in Amsterdam', Hermeneus 61 (1989) 271-73.



1990

De Etrusken (with J. Beelen, L.B. van der Meer), 2nd revised ed., 1990: 220 pp.

1991

'A Band-cup by the Phrynos Painter in Amsterdam', Stips Votiva, Papers presented to C.M. Stibbe, M. Gnade (ed.) (Amsterdam 1991) 21-30.

'Zes zwijnen op een rij', Mededelingblad Amsterdam 50 (1991) 7-9.

'Een dame uit Canosa', Mededelingenblad Amsterdam 51 (1991) 3-9.

Review R.S.P. Beekes, L.B. van der Meer, De Etrusken spreken (Muiderberg 1991) in Hermeneus 63 (1991) 222-23.

1992

Siana Cups II: The Heidelberg Painter Part I: Text (208 pp.), Part II: Plates (79 pp.), Allard Pierson Series Vol. 8 (Amsterdam 1991).

1993

'Simple decorated, black Siana Cups by the Taras Painter and Cassel Cups', BABesch 68 (1993) 129-145.

'Een goudgele steelpan', Mededelingblad Amsterdam 56 (1993) 9-12.

'De Nieuwe Vleugel', Mededelingblad Amsterdam 58 (1993) 1-2.

'Medusa onthoofd', ibid., 3-6.

'De Amsterdamse kouros', with M.H.J. van Dorst, ibid., 6-18.

1994

'Griekse beelden in een Nieuwe Vleugel', Hermeneus 66 (1994) 24-33.

'Griekse marmeren beelden in de Nieuwe Vleugel', Mededelingenblad Amsterdam 59/60 (1994) 1-3.

'Het ontstaan van de monumentale Griekse beeldhouwkunst', ibid., 16-22.

'Marmer in Beeld', Spiegel Historiae (maart/april 1994) 104-105.

'Marmer in Beeld' in het Allard Pierson Museum, Scarabee, 9 (1994) 28-32.

1995

'The Amsterdam Kouros', Pharos III (1995) 3-21 (with M.H.J. van Dorst).

'Allard Pierson Museum: verzamelen, aankopen en vervalsen' in Jaarboek van de Universiteit van Amsterdam: Collecties (Amsterdam 1995) 28-34.

'Attische drinkschalen: interpretatie van voorstellingen', ibid., 36-39.

'An Attic Black-figure Siana Cup by the Malibu Painter' in Greek Vases in the San Antonio Museum of Art (H.A. Shapiro and C.A. Picon eds., San Antonio 1995), 74-75 no. 32.

'An Attic Black-figure Siana Cup in the Manner of the Heidelberg Painter' in ibid. 75-77 no. 33.

'An Attic Droop Cup by the Painter of Athens NM 21028' in ibid., 98 no. 46.

'An Attic Black-figure Cup by the Group of the Camiros Palmettes', in ibid., 102 no. 49.

1996

Corpus Vasorum Antiquorum, Amsterdam 2, The Netherlands 8, in collaboration with P. Heesen, J.T. Smit-Lub, O.E. Borgers (Amsterdam) 224 pp.

(ed.), P. Heesen, The J.L. Theodor Collection of Attic Black-Figure Vases: Allard Pierson Series Vol. 10 (Amsterdam 1996): 210 pp.

'Komast Cup and Siana Cups', in P. Heesen, The J.L. Theodor Collection of Attic Black-Figure Vases, Allard Pierson Series, vol. 10 (Amsterdam 1996) 101-123.

'The C Painter', in The Dictionary of Art, vol. 32 (London) 37.

'The Heidelberg Painter', in ibid., 47.

'Tleson', in ibid., 69.

1997

'New Light on the Earliest Attic Black-Figure Drinking-Cups', in: J.H. Oakley, W.D.E. Coulson, O. Palagia (reds.) in Athenian Potters and Painters, The Conference Proceedings (Oxford 1997) 1-15.

'A Bronze Cup in the Allard Pierson Museum', BABesch 72, 1997, 21-35 (with C.M. Stibbe; contribution by R. Leenheer).

'De gevolgen van het Unidroit-verdrag voor een archeologisch museum', in Unidroit-verdrag, wel of niet in Nederland?, Internationale bescherming van cultureel erfgoed (Amsterdam 1997) 26-30.

Siana Cups III, The Red-black Painter, Griffin-bird Painter and Siana Cups resembling Lip-cups, Allard Pierson Series 13, Amsterdam, 336 pp.

'Placca di Schnabelkanne con haruspice', in Gli Etruschi, Catalogo della mostra, Palazzo Grassi, Venezia (Venetië 2000), p. 592.

'Hydria ceretana del Pittore dell'Aquila', in ibid., p. 594.

'Anfora del Pittore di Amsterdam', in ibid., p. 607.

'Kantharos', in ibid., p. 610.



## Curriculum Vitae of Dr. Eric M. MOORMANN

Born 9 January 1955 at Boxmeer, The Netherlands

MA Classics, Classical Archaeology and Italian Literature, Nijmegen University, 21-5-1980

PhD Classical Archaeology, Nijmegen University, 26-9-1986

University Docent Classical Archaeology, University of Amsterdam, as of 1-5-1987

Archaeologist and interim director Dutch Institute in Rome 1-9-1992 – 1-2-1997

Visiting Professor University of Bologna, Italy 1-1-1997 – 1-7-1997

Interim Director Dutch Institute in Athens 15-4-2000 – 15-10-2001

Since 1997 Korrespondierendes Mitglied des Deutschen Archäologischen Instituts

### Excavation and fieldwork practice

Excavations at Agrigento (Sicily) 1978; Dutch excavations at Nijmegen, Alphen, Zwammerdam 1974-1978; Fieldwork in Pompeii, Herculaneum and Rome from 1979 onwards in various projects.

### Main fields of research

Greek and Roman sculpture; urbanistics of Pompeii and Rome, Roman wall painting; Fortune of Antiquity in western European culture

### List of Publications

#### **1980**

E.M. Moormann/P. Beelen/T. Verhoeven, *Pis fhefhaked eisei Suodalicium*, Nijmegen 1980.

#### **1981**

W.J.Th. Peters/L.J.F. Swinkels/E.M. Moormann, Die Wandmalereien der römischen Villa von Druten und die Frage der Felderdekoration in den europäischen Provinzen, *Berichten van de Rijksdienst voor het Oudheidkundig Bodemonderzoek* 28 (1978) 153-197.

#### **1982**

Roman Wall-Paintings from the Netherlands: A Survey, in J. Liversidge (ed.), *Roman Provincial Wall-Painting of the Western Empire*, B.A.R. Int. Series 140 (1982) 161-182.

E.M. Moormann/L.J.F. Swinkels, Wall-Painting Fragments from Roman Villas at Stein and Ravensbosch, *Berichten van de Rijksdienst voor het Oudheidkundig Bodemonderzoek* 29 (1979) 403-424.

#### **1983**

Sulle pitture della Herculaneum Augustalium Aedes, *Cronache Ercolanesi* 13 (1983) 175-177.

Recent Discoveries of Roman Wall-Paintings in the Netherlands: Maasbracht and Hoogeloon, in A. Barbet (ed.), *La peinture murale romaine dans les provinces de l'Empire*, B.A.R. Int. Series 165 (1983) 263-264.

E.M. Moormann/L.J.F. Swinkels, Lozenges in Perspective, in A. Barbet (ed.), *La peinture murale romaine dans les provinces de l'Empire*, B.A.R. Int. Series 165 (1983) 239-262.

L.J.F. Swinkels/E.M. Moormann, Wall-Painting Fragments from a Roman Villa at Vlengendaal (Bocholtz), *Berichten van de Rijksdienst voor het Oudheidkundig Bodemonderzoek* 30 (1980) 347-365.

#### **1984**

J.A. de Waele/L.J.F. Swinkels/E.M. Moormann (edd.), *Om de tuin geleid*. Een feestbundel aangeboden aan prof. dr. W.J.Th. Peters ter gelegenheid van zijn 65e verjaardag, Nijmegen 1984. Hierin: Een beeld van een tuin en andere fragmenten, 57-64.

Le pitture della Villa dei papiri ad Ercolano, in M. Gigante (ed.), *Atti del XVII Congresso internazionale di papirologia*, Napoli 1984, 637-674.

E.M. Moormann/P. Beelen/T. Verhoeven, *Pis fhefhaked eisei Suodalicium*. Supplement, Nijmegen 1984.



### 1985

Rappresentazioni teatrali su scaenae frontes di quarto stile a Pompei, *Pompeii Herculaneum Stabiae* 1 (1983) 73-117.

'Een bron van tedere, innige ervaringen'. Gedachten naar aanleiding van het hedendaagse onderzoek inzake homoseksualiteit in het oude Griekenland, *Hermeneus* 57 (1985) 275-285.

### 1986

*La pittura parietale romana come fonte di conoscenza per la scultura antica*, dissertatie Nijmegen 1986.

Parietum incrustationes tenacissimis coloribus pictas. Roman Wall-Painting Fragments in the Rijksmuseum van Oudheden at Leyden and the Rijksmuseum G.M. Kam at Nijmegen, *Oudheidkundige Mededelingen uit het Rijksmuseum van Oudheden Leiden* 65 (1984-1985) 51-92.

'Mijn dichtkunst zal geen luchtig spel zijn'. Over Sandro Penna en zijn poëzie, *Maatstaf* 34 (1986) no. 10, 23-30.

### 1987

E.M. Moormann/W. Uitterhoeve, *Van Achilles tot Zeus. Thema's uit de klassieke mythologie in literatuur, muziek, beeldende kunst en theater*, Nijmegen 1987 (herdrukken met correcties 1988, 1989, 1992; geheel herzien en uitgebreid 1995, ook in RAINBOW Pockets).

Un fior di giardino ed altri frammenti di pittura ercolanese, *Cronache Ercolanesi* 16 (1986) 123-133.

Ein neues Fragment des Taubenmosaiks aus der Hadriansvilla in Tivoli, *Archäologischer Anzeiger* (1987) 153-158.

Die Wandmalereien in der Casa del mobilio carbonizzato in Herculaneum, in *Pictores per provincias* (= Avenicum V), Avenches 1987, 127-134.

### 1988

*La pittura parietale romana come fonte di conoscenza per la scultura romana*, Assen 1988 (=Scrinium, 2).

Vijftig jaar Nederlands Klassiek Verbond, in *Vijftig jaar Nederlands Klassiek Verbond* (=Bijlage *Hermeneus* 60.1), Alkmaar 1988, 2-16.

Het woonhuis in de Hellenistische stad, *Lampas* 21 (1988) 137-155.

Ovidius en de beeldende kunst, *Lampas* 21 (1988) 383-399.

Una rilettura dei quattro stili pompeiani. Osservazioni a proposito di ALIX BARBET, *La peinture murale romaine: les styles décoratifs pompéiens*, *Bulletin Antieke Beschaving* 62 (1987) 153-165.

### 1989

H.L. van Dolen/E.M. Moormann, *Johann Joachim Winckelmann: Twee brieven*, Alkmaar 1989.

E.M. Moormann/W. Uitterhoeve, *Van Alexandros tot Zenobia. Thema's uit de klassieke geschiedenis in literatuur, muziek, beeldende kunst en theater*, Nijmegen 1989 (herdrukken met correcties 1992; 1998; ook in RAINBOW 1995).

Ovidius en de bron van het Orpheus-verhaal, *Lampas* 22 (1989) 243-247.

Hermaphroditus marmoreus: een marmeren Hermaphrodit, *Mededelingenblad van de Vereniging van Vrienden van het Allard Pierson Museum* 46 (september 1989) 14-19.

### 1990

Blijft de oudheid verkoopbaar?, *Kohelet* 7, no. 1 (1990) 9-11.

Odysseus in marmer, *Bzzlletin* 175 (1990) 30-39.

Eine Kopie der Aphrodite von Kallimachos in Amsterdam, *Bulletin Antieke Beschaving* 65 (1990) 45-50.

Ovidius, *Metamorphosen*, Boek I. Vertaald door M. d'Hane-Scheltema. Keuze illustraties en verantwoording Eric M. Moormann, Amsterdam 1990.

Elio Vittorini, *Gesprek op Sicilië*, vertaald door Eric M. Moormann, Amsterdam 1990.

### 1991

S.T.A.M. Mols/E.M. Moormann, Smaak en comfort in de Romeinse oudheid, *Kunstschrift* 1991, no. 4, 26-37.

Bouwkunst binnen de muren, *Mededelingenblad van de Vereniging van Vrienden van het Allard Pierson Museum* 50 (1991) 26-29.

Homeros op drift: theorieën over Troje en Ithaka, *Hermeneus* 63 (1991) 206-211.

Aldo Busi: een explosie, *Bzzlletin* 188 (1991) 60-64.

Destruction and Restoration of Campanian Mural Paintings in the 18th and 19th Centuries, in S. Cather (ed.), *The Conservation of Wall Paintings*, Malibu 1991, 87-101.

### 1992

H.L. van Dolen/E.M. Moormann, *Lauta cena*, Imago, kalender van het Nederlands Klassiek Verbond voor 1993, Alkmaar 1992.



*Pompeii. Terug naar de bedolven stad*, Amsterdam 1992 (=gids bij gelijknamige tentoonstelling).  
Imperial Roman mosaics at Leiden, *Oudheidkundige Mededelingen uit het Rijksmuseum van Oudheden Leiden* 71 (1991) 97-115.

Die Funde aus den Siedlungsspuren: Fragmente römischer Wandmalerei, in W.A. van Es/R.S. Hulst, *Das merowingische Gräberfeld von Lent*, Amersfoort 1991 (=Nederlandse Oudheden, 14; Projekt Oostelijk rivierengebied, 2), 55-57.

In sombere dagen schittert een groen juweel, *Kunstschrift* 1992 no. 4, 50-51.

Van schatgraven tot computerprogramma's. 250 jaar archeologie in Pompeii, *Vitrine* 5, nr 6 (1992) 17-19.

Pompeji wordt virtual reality, *Vrij Nederland* 12 december 1992, 62-65.

Zwei Landschaftsdarstellungen in der Casa sannitica in Herculaneum, *Kölner Jahrbuch für Vor- und Frühgeschichte* 24 (1991) 11-17.

### 1993

Alles is beweeglijk en niets blijft, *Kunstschrift* 1993, no. 5, 10-14.

De Boog van Constantijn een boog van Hadrianus?, *Tijdschrift voor Mediterrane Archeologie* 6 (1993) no. 2, 34-36.

E.M. Moormann/T. Toebosch, De uitbarsting van de Vesuvius, een tentoonstelling in Amsterdam, *Spiegel Historiael* 28 (1993) januari, 13-17.

W.J.Th. Peters, *La casa di Marcus Lucretius Fronto a Pompei e le sue pitture*, Amsterdam 1993.

Parts on mosaics in contribution by Heres; with Peters chapters on IIIrd and IVth stile and status; with S.L. Wynia graffiti; chapters on old finds and function (pp. 141-412).

J.J. Winkelmann, *Een portret in brieven*. Geselecteerd, ingeleid en van aantekeningen voorzien door H.L. van Dolen en E.M. Moormann, Baarn 1992.

### 1994

R. van Beek/J.M. Hemelrijk/E.M. Moormann, De volmaakte mens, *Mededelingen van de Vereniging van Vrienden van het Allard Pierson Museum* 59-60 (1994) 23-33.

(Ed.), *Functional and Spatial Analysis of Wall Painting. Proceedings of the Fifth International Congress on Ancient Wall Painting, Amsterdam 1992*, Leiden 1993 (=BABesch Supplement 3).

Mural Paintings in the Sacello del Silvano, in J.Th. Bakker, *Living and Working with the Gods. Studies of Evidence for Private Religion and its Material Environment in the City of Ostia (100-500 AD)*, Amsterdam 1994, 262-270.

Mosaici da Melos a Leida, in *VI. Coloquio internacional sobre mosaico antiguo (Palencia-Mérida 1990, z.p., z.j. (=1994))*, 161-166.

Oude zuilen, een nieuwe orde: aspecten van de archeologiebeoefening in Italië, *Lampas* 27 (1994) 161-171.

Disiecta membra in the church of SS. Michele e Magno in Rome, *Mededelingen van het Nederlands Instituut te Rome* 51-52 (1992-1993) 135-150.

Tussen Parijs en Napels. Enige fragmenten uit het veelzijdige werk van abate Galiani, in *Virtute e canoscenza. Ter gelegenheid van Wim van Lakwijks afscheid van het Barlaeus Gymnasium*, Amsterdam 1994, 138-146.

Het gouden huis van Nero in Rome. Nederlands onderzoek in de Domus Aurea, in *Radar 1995. Stand van zaken in de wetenschap*, Bloemendaal, 176-194.

Sangarios, *Lexicon Iconographicum Mythologiae Classicae* VII, Zürich/München 1994, 665-666.

### 1995

P.G.P. Meyboom/E.M. Moormann, Domus Aurea. Appunti sul padiglione della domus Aurea neroniana sul Colle Oppio, *Bollettino di Archeologia* 16-18, 1992-1993 (=1995) 139-145.

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#### 1998

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#### 1999

S.T.A.M. Mols/E.M. Moormann, Le pitture romane - Frammenti in situ, in: P. Liverani (ed.), *Laterano, I. Scavi sotto la Basilica di S. Giovanni in Laterano. I materiali*, Città del Vaticano 1998 (= Monumenti, Musei e Gallerie Pontificie), 115-131.



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## 2000

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## 2001

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## Curriculum Vitae of Dr. M.J. VERSLUYS

Born: 29-9-1971

MA Classical archaeology, University of Leiden 1995

PhD research at the University of Leiden 1996-2001

Doctoral degree (cum laude): 10-5-2001 'Aegyptiaca Romana. Aspects of a cultural phenomenon'

Post doctoral research fellow Amsterdam Archaeological Centre

Excavation and fieldwork practice in Holland and Belgium (Houten, Alphen aan den Rijn, Treignes) and around the Mediterranean (Italy: Fregellae, Pompeii, Rome; Greece: Halos).

## List of Publications

Op jacht in het land van de zwarte mensen. Het jachtfries van een graftombe in Marissa, *Hermeneus* 66 (1994) 314-319

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*Aegyptiaca Romana. Aspects of a cultural phenomenon* (diss. Leiden, 2001)

*Aegyptiaca Romana. Nilotic scenes and the Roman view of Egypt. The Exotic, Colonialism and the Egyptian Gods*, Brill-Leiden (2002)

Splendid Isolation? A glimpse into contemporary British archaeology, *Archaeological Dialogues* 8.2 (2002) 6 pp.



## Team List 2002

## ATTACHMENT 3

Prof. Dr. Herman A.G. Brijder see attachment 2	Projectmanager
Dr. Eric M. Moormann see attachment 2	Acting Projectmanager
Dr. Miguel J. Versluys See attachment 2	Assistent Acting Project Manager
Ir Maurice L.A. Crijs <u>C.V.</u>	Project Co-ordinator
1966-1972	HBS/Gymnasium
1972-1977	Technical University of Eindhoven / architecture
1977-1987	Senior Architect ZON
1987-1990	Comm.Director Rolscreen Company Inc.
1990-1996	Research & Development Director Alumax Inc.
from 1996 onwards	Managing Director Ems-NI BV

### List of Publications

*Generation of Small Ions*, University of Utrecht / Physics  
*The impact of airborne ions on human physiology* - co-author Dr. Ir. Hoelscher; report M/75/4, Laboratory for Materials / Technical University Eindhoven, 1975.  
*Ultrason detecting structural integrity of building constructions and human bone fractures* - co-author Dr. Ir. Hoelscher; report M/76/4, Technical University Eindhoven, 1976.  
*Wood, woodframe construction and green roof*, Department of Housing, Municipality of Rotterdam, jan.1981.  
*Measurements on ion contents in hospitals*, co-authors Dr. T.F. de Bruin (Institute of Meteorology and Oceanography, University of Utrecht), Dr. An Wakeren (Institute KEMA), Dr. Beganovic (Dept. Prematures of the Hospital of St.Joseph Eindhoven 1986), 1-7.  
*Kommagene : das vergessene Königreich*, Istanbul, 1987.

Prof. Dr. Onno M. van Nijf <u>C.V.</u>	Epigraphist
June 2000-to date	Van der Leeuw Full Professor of Ancient History University of Groningen
July 1998-June 2000	Royal Dutch Academy Postdoctoral Research Fellow. Research project: The festive culture of the Greek City in the Hellenistic and Roman Periods. University of Amsterdam/Faculty of Classics Cambridge.
Sept.1997-July 1998	Leverhulme Research Fellow in Greek epigraphy Faculty of Classics, Cambridge.
Oct.1995 – Sept.1997	Teaching fellow in Ancient History. Dept. of Classics and Ancient History, University of Bristol.
1991-1995	Junior Research Fellow in Ancient History. Faculty of Arts, University of Amsterdam.
March 1996	€ PhD. (with distinction). Dissertation: The Civic World of Professional Associations in the



1987-1990 Greek Cities of the Roman Empire. University of Amsterdam.  
€ Postgraduate study Ancient History Faculty of Classics, Cambridge  
1980-1988 Study Classics University of Leiden

### List of Publications

Trade, Transport and Society in the Ancient World. A sourcebook. (with F.Meijer) London, 1992. (Routledge).  
The civic world of private associations in the Greek East. Amsterdam, 1997. (J.C.Gieben).

Dr. Abraham van As

Archaeologist/pottery specialist

#### C.V.

1975-now Lecturer at the Faculty of Archaeology, Leiden University  
1982-now Head of the Department of Pottery Technology and editor of the  
*Newsletter of the Department of Pottery Technology*  
1987 PhD. Leiden University 'Het pottenbakkersambacht in het oude Syrië.  
Een technologisch-archeologische studie van aardewerk uit het Tabqa  
gebied in NW Syrië en een beschouwing over aardewerktechnologie'.

### Recent publications include:

A. van As, N.G.A. London (eds.) Ceramic Ethnoarchaeology: from Sardinia to Iraq (1998-1999)  
A. van As, M.-H. Wijnen, A technological study of the Chalcolithic pottery of Illipinar Phase Vb, in: J.J.  
Roodenberg, N.L.C. Tissen (eds.), *The Illipinar excavations II*. (2001) 155-168  
A. van As, M.-H. Wijnen, The potter of Önekköy: an ethno-archaeological note on the pottery of Illipinar, in: J.J.  
Roodenberg, N.L.C. Tissen (eds.), *The Illipinar excavations II*. (2001) 169-176

Dr. A. Elena Charola

Scientific Consultant in Conservation

#### C.V.

1974 Degree in Chemistry from the Universidad Nacional de La Plata  
(Argentina)  
1976-1980 Post-doctoral research New York University  
1981 Department of Objects Conservation at the Metropolitan Museum of  
Art, NYC, as Associate Chemist  
from 1985 Scientific Advisor at ICCROM [*International Centre for the Study of  
the Preservation and the Restoration of Cultural Property*], Rome,  
Italy  
1987- Consultant to the Dirección Nacional de Museos, Buenos Aires  
from 1987 Consultant to the Easter Island Program for World Monuments Fund  
1991- Consultant for the WMF Easter Island Program as well as for other  
projects (Belvedere, Vienna; the Exterior Conservation of the Torre  
de Belem—which received the Europa Nostra prize for an outstanding  
conservation project; and Nemrut Dag, Turkey)  
from 1996 Lecturer in Advanced Architectural Conservation at the Graduate  
Program in Historic Preservation of the University of Pennsylvania  
currently also Coordinator of the Scientific Advisory Committee for the  
Conservation of the Claustro do Mosteiro dos Jerónimos, under the  
Associação WMF Portugal.

### Publications

She has published two books and over 90 scientific papers in the field of stone and masonry deterioration and conservation.



Dr. Paolo Pagnin  
C.V.

Stone conservator

- Since 1983 Conservator/Restorer, Venice, Italy
- 1985 U.N.E.S.C.O. Course on: "Preservation and Treatment of Stone",
- 1988 I.C.C.R.O.M "Conservation of Mural Paintings", Rome, Italy.
- Since 1987 Assistant/Coordinator, I.C.C.R.O.M. Course on the "Preservation and Treatment of Stone", Venice, Italy.
- 1991/92/93 I.C.C.R.O.M and UNESCO Consultant , on the U.N.E.S.C.O./U.N.D.P. Conservation Project regarding the restoration of the Nampaya Temple, Pagan (Burma).
- 1993/94 'Ecole Française d'Extreme Orient" Consultant, on the conservation of the Khmer Temple "Presat Phanom Wan" at Korat (Thailand).
- 1996 / 1997 World Monuments Fund Consultant, on the Conservation Project concerning the "Preah Khan" Temple , Angkor Tom (Cambodia)
- U.N.E.S.C.O. Consultant , on the Development Project of the Agra and Matura Area (India) concerning the conservation of the region's most important monuments including the Taj Mahal.
- U.N.E.S.C.O.consultant for the conservation of the frescoes of the Probotia Monastery Romania
- 1999 W.M.F Consultant on the Conservation Project concerning Constantin Brancusi's Monumental Complex, Targu Ju, (Romania ).

#### Most important projects undertaken

- 1983/4/ Restoration of three stone monuments inside the church of Frari XV / XVI century
- 1985 Restoration of the Scala del Bovolo, Venice, Italy XV century.
- 1988 Restoration of the mai portal of the church of Etampes, France XII century.
- 1989 Restoration of the frescoes in the Church of Angelo Raffaele, Venice, Italy XVIII cent.
- 1990 Restoration of the Renaissance facade of the Doges Palace Venice, Italy, XVI century.
- 1991 Restoration of sculpture west facade of Bourges Cathedral, France XII century.
- 1992 Restoration of the facade of the church Sainte Croix, Bordeaux , France XII century.
- 1993 Restoration of the archeological fountain Del Pincio, Rome, Italy.
- 1994 Restoration of some fountains, Château of Villandry, France, XVIII century.
- 1995 Restoration of the towers of the Catedral of Notre Dame, Paris, France.
- 1996 Consolidation of the tree portals of the cathedral of Nantes, France.
- 1997 Restoration of the facade of the church of S. Maria Formosa, Venice, XVI century.
- 1997 Restoration of the facade of Villa Medici, Rome, Italy XV century.
- 1998 Restoration of the frescoes of the church Incoronata, Mantova, Italy XVII century.
- 1999 Restoration of the main portal of the Cathedral of Amiens, XIV century.
- 2000 Restoration of the palace Ca'Pesaro, Venice, XV century.
- 2001 Restoration of the facade of the church S. Maurizio, Venice, XVIII century.

Bernd Fitzner, Dr.-Ing.

Stone scientist

C.V.

Dr. Fitzner studied geology in Aachen and Vienna. He is currently Academic Director of the Geological Institute of the RWTH (Rheinisch Westfallisch Technische Hochschule) Aachen, Germany, and Chairman of the Working Group "Natural Stones and Weathering".

He has participated in numerous national and international research projects dealing with stone deterioration, microstructure analysis, artificial weathering simulation and has published extensively in all of these topics. He is member of several national and international Committees dealing with these topics.

Kurt Heinrichs, Dipl.-Geol.

Stone Scientist



### C.V.

Dr. Heinrichs has studied Geology at the RWTH Aachen. For the past ten years he has been Scientific Researcher in the Working Group "Natural Stones and Weathering" at the Geological Institute. He has collaborated in various national and international research projects dealing with the nature of stone and its deterioration.

Dr. Eberhard Wendler

Stone Scientist

### C.V.

Dr Wendler studied Chemistry at the University of Munich, Germany, where he obtained his PhD in Solid State Chemistry (development of artificial bone for implantation materials). He was Scientific Researcher at the Bavarian State Conservation Office and Chairman of the Stone Conservation Working Group at Geological Institute of the University of Munich. Since 1992 he has established a private Conservation Laboratory, continuing research in the field of stone conservation while serving as consultant in both national and international projects on Stone and Brick Conservation (Brazil, Norway, Finland, France, Eastern Europe, India, Thailand, Cambodia, Easter Island/Chile). He has published extensively in the field.

Prof. Dr. Predrag Gavrilovic

Civil Engineer

### C.V.

1963 MA Institute of Earthquake Engineering and Engineering Seismology, Skopje, Republic of Macedonia, M. Sc. in Earthquake Engineering  
1972 PhD Civil Engineering Faculty, University of Belgrade, Doctor of Technical Sciences in Structural engineering  
1969-1974 Assistant Professor, Faculty of Civil Engineering University Ciril and Metodius ,Skopje  
1974- 1982 Associate Professor, IZIIS, Skopje  
1982- 1991 Professor and Head of Structural Department at the Institute,IZIIS,Skopje  
1991- now Professor, Principal Investigator and Research Advisor ,IZIIS ,Skopje; Professor on Post Graduate study and International School on following subjects: Seismic Design of Building Structures. Reinforced Concrete Structures. Repair and Strengthening of Structures; Principal Investigator of a number of National and International Projects; Visiting Professor and lecturer of different Universities (Belgrade, Italy-Bologna, Algeria CGS, Podgorica , Phnom Penh and other); Director of International Council of Seismic Design of Structures; UNESCO and UNDP expert and consultant in different projects; The Getty Conservation Institute (GCI) and World Monument Fund (WMF) New York consultant.

### □ List of Selected International Research Projects /1991-2001/ (Principal investigator and/or Co-principal investigator/

- "Dynamic Analysis of Wooden Truss - Frame Structures", YU-USA Research joint project 1988-1992
- "Methods for Ripper and Strengthening the National Monuments in Pagan-Burma" ,UNESCO/UNDP project , 1991/92
- "Investigation for Elaboration of Seismotectonic Map and Draft Seismic Design Code of Tunisia", Skopje - Tunis, UNESCO Project,1991-1992
- "Study for Seismic Strengthening, Conservation and Restoration of Churches Dating from Byzantine Period (9<sup>th</sup> - 14<sup>th</sup> Century) Located in Macedonia", The Getty Conservation Institute-IZIIS joint project, 1991-1994



- "Structural Stabilization of Monuments at Preah Khan - Historic City of Angkor, Cambodia", (Principal investigator and Author of Methodology for Structural Aspects), World Monuments Fund, New York, USA, 1993-2000.
- "Shaking Table testing of Adobe Structures", USA-MK joint project The Getty Conservation-IZIIS, 1995-1996
- "Development of Metrology for Ultra Strength Concrete" , Ministry of Science of Macedonia,1996-2000
- "Development of Methodology for Repair of Historical Monuments " MOSM ,1998-2001

### Publications (1991-2001)

- "International Hand Book of Earthquake Engineering"(Codes,Programs and Examples)CHAMPAN&HAAL, International Thompson Publish Company,New York,USA, Editor M.PAZ--P.Gavrilovic, pp:528-535 ,1996
- "Repair and Strengthening of Reinforced Concrete, Stone and Brick-Masonry Buildings,UNDP/UNIDO (Manuel) Vienna 1983
- "Seismic Strengthening and Conservation of Byzantine Churches in Macedonia" JEE,Imperial College Press.1999
- "Correlation of Experimental and Analytical Investigation of Large Panel Prefabricate Structures" .P .Gavrilovic, Earthquake Engineering and Structural Dynamics,1991
- "Seismic Strengthening and Conservation of Byzantine Church (from 9-th to 14-th) Centaur in Macedonia' editors P.Gavrilovic .B.Ginell 1997/ to be publish by CGC ,LA/
- "Structural Repair and Consolidation Methods", P.Gavrilovic , World Monuments Fund, New York,1994

### List of Selected Papers presented on International Journals, Conferences, Workshops and Symposiums 1991-2001

1. Gavrilovic, P., "*Experimental Investigation of Dynamics, Strength and Deferability Characteristics of Historic Structures*", Journal of the European Study Group of Physical, Chemical, Mathematical and Biological applied to Archeology, PACT-Belgium, B. 1987
2. Oliva, R.W. Clough, P. Gavrilovic, "*Seismic Testing of Large Panel Precast Walls: Comparison of Pseudostatic and Shaking Table Tests*:. Report EERC 89/20, Earth. Eng. Resch. Ctr., University of California, Berkeley, California
3. Gavrilovic P., Gramatikov K., "*Experimental and Theoretical Investigations of Wooden Truss-Frame Structures under Cyclic Loads*", International Conference on Timber Engineering, Tokyo, Japan, 1991.
4. Gavrilovic P., Gramatikov K., "*Full-Scale Shaking Table of a Truss-Frame Structure*". International Conference on Timber Engineering, Tokyo, Japan, 1991.
5. Oliva, P. Gavrilovic, R.W. Clough, 1990, "*Seismic Testing of Large Panel Precast Walls: Comparison of Pseudostatic and Shaking Table Tests*", V19, N6, J. Earthquake Engineering and Structural Dynamics, August 1990, p.859-p. 875
6. Gramatikov K., Kokalanov G., Gavrilovic P., "*Non-linear Analysis of Wooden Truss Structures*", IX Congress on Applied and Theoretical Mechanics of Yugoslavia, 1991.
7. Gramatikov K., Gavrilovic P., "*Full-Scale Shaking Table Test of a Single-Story House*", International Conference on Timber Engineering, London, 1991
8. Gramatikov K., Gavrilovic P., "*Experimental and Theoretical Investigations of Wooden Truss-Frame Structures under Quasi-Static and Dynamic Loads*" - Workshop on full-scale Behavior of Low-Rise Wood - Frame Buildings, London, 1991.
9. Gavrilovic P., Sendova V., "*Experimental and Analytical Studies of Infield Walls in RC Structures*", Tenth World Conference on Earthquake Engineering, Madrid, 1992;
10. Gavrilovic P., "*Structural Repair and Consolidation Methods*", World Monuments Fund, New York, 1994.
11. Gavrilovic, P., "*Seismic Strengthening of Historic Buildings in urban and nuclei and Historical Monuments*", International colloquium seismic protection of monuments, - The Getty Conservation Institute - Foundation Caspicara, Quito - Ecuador, 1993
12. Gavrilovic, P., "*Structural Repair and Consolidation Methods*"; Preah Khan, Historic City of Angkor - Cambodia", V/A, World Monuments Fund, 1994, New York, USA.





13. Gavrilovic P., Ginell W., Sendova V., Sumanov L., *"Development of a Methodology and Experimental Investigation of Seismic Strengthening of Historic Monuments"*, U.S. Fifth National Conference on Earthquake Engineering, Chicago, 1994;
14. Gavrilovic P., Sendova V., *"Study for Evaluation of a Methodology for Repair and Strengthening of Byzantine Churches"*, X European Conference of Earthquake Engineering, Vienna, 1994;
15. Krstevska L., Taskov Lj., Gavrilovic P., *"Dynamic Characteristics of Historical Monuments Dating from the Byzantine Period in Macedonia"*, 10th European Conference of Earthquake Engineering, (ECEE), Vienna, Austria, 1994.
16. Gavrilovic P., Sendova V., Ginell W., Sumanov L., *"Development of a Methodology for Seismic Strengthening of Byzantine Churches"*, IV International Conference STREMA '95, Crete, Greece, 1995;
17. Gavrilovic P., Sendova V., *"Seismic Strengthening of Historical Monuments and Experimental Investigations"* "Anali Di GEOFISICA", Volume XXXVIII-95, Italy 1995;
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2000-present

Allard Pierson Museum, Amsterdam: Research and publication of Archaic East Greek pottery collection

### List of publications

with R. Senff and B. Hürmüzlü, 'Das Wohnviertel am Südhang des Kalabaktepe', in: V. von Graeve *et al.*, 'Milet 1994-1995 ...', AA 1997, 118-120.

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1984-1988                  GVT Smalle Haven  
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from 1990      Research, production, and direction of many documentaries for Dutch television, thereby mainly focussing on science and scientific projects

Peter A. De Kock

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1986 - 1990      Hogeschool Sittard: Photography (graduation 1990; Cum Laude)

1990 - 1994      Filmacademy Amsterdam (NFTVA) Direction : Camera (graduation 1994)

from 1995      Preparation, direction and shooting of many documentary camera- and directing projects

N.N.

As yet unknown Operator High Resolution Scanner

For the study of the inscriptions (see attachment 5, paragraph 3.3) the project will probably use a very modern Minolta 3D High Resolution Scanner. This scanner can only be operated by a professional. As yet one could not definitively inform use who this person will be.



## **Objectives**

### **1 Protection of the site**

As stressed in different scientific publications the monument on the Nemrud is in need of protection and restoration measurements. In accordance with the European Code for Restoration the first step is a systematic documentation and survey of the monument to fix the present situation.

### **2 Conservation of the site**

Now the survey/documentation is available for the most part, the INF and WMF (World Monuments Fund) have organised a roundtable dedicated to the conservation of the monument (Kahta, Adiyaman July 2001 and Amsterdam November 2001). Participants were the archaeologists from the University of Amsterdam involved, representatives of the Ministry of Culture and international conservation specialists.

In close co-operation with the scientists, a long-term restoration and conservation plan is now defined. Next, we also prepared a detailed programme for the restoration work to be carried out from 2002 onwards in close co-operation with the supervising Committee of the Ministry of Culture. In the meantime minor protection measurements will be realised if approved by the authorities of the Ministry of Culture.

### **3 Excavation of the tomb of Antiochos I**

This item will be the last objective to be executed and has not our primary interest, as the priority of the project are the objectives 1-2. Before any serious work can start an infrastructure will be required to enable modern and efficient working methods.

A detailed working plan can be made only after having completed the preliminary studies, largely carried out in 2001 and finished in 2002 (presented after the 'General Planning'). The scheme in the 'General Planning 2001-2009' may serve as indication for the activities on the longer term.





As will become clear from the 2002 programme this year's Nemrud Project will have two main points of interest:

1. Finish the documentation and archaeological study of the monument (on and around the mountain, highlighting different aspects from a virtual reconstruction to epigraphy)
2. Start a restoration and conservation project.

As the goals and intentions of the first point are also clearly described in the 2001 application, these are not enlarged upon. Most attention is given to the restoration and conservation project that will use external specialists working with- and monitored by the Project leaders (Brijder, Moormann, Versluys).

### **1.0 Infrastructure**

The present gravel road from Malatya is inadequate. The stone road up to the foot of the mountain from Adiyaman has to be extended. On top of the mountain is no shelter, electricity or water.

#### **1.1 Road**

A temporary gravel road has to be constructed from the 'cafeteria' to the West-Terrace. To be included in the application.

#### **1.2 Site Office**

A temporary site office has to be constructed at the West-Terrace. To be included in the application.

#### **1.3 Storage**

A container storage of two 40 feet containers is required next to the Thor container. To be included in the application.

#### **1.4 Lodging**

During the campaign a modern kind of an excavation-house is required with facilities for sleeping, cooking and studying/computing as well as storage of small artefacts. The former Zeus Hotel annex Jandarma hostel is suited for the accommodation of the team. To be requested.

### **2.0 Topographic survey**

In 2001 a topographic survey has been carried out by our team, making use of the most modern methods in order to prepare a detailed plan of the mountain and its surroundings, which will form the basis of further field work.

Objective:

The survey will be extended in four steps. First to the West-Terrace, East-Terrace and North-Terrace, and finally to the quadrant bordered in the east by the ice-caves, the entrance stele I and in the west by the entrance stele III. The 2001 campaign provided the largest part of the data; the topographical survey will be finished in this campaign.



### **3.0 Archaeological prospection and survey**

#### **3.1 Virtual reconstruction**

Since the first expedition by Otto Puchstein in 1882 several reconstructions have been made. The most recent ones focussed on the statues but are either too schematic (Wright) or only partly detailed (Görkan).

Objective:

Study of the statues and stelae on the West and East Terrace, including the blocks scattered over the area; study of the slabs on the Northern Terrace. The sequence will be the West-Terrace, the East-Terrace and finally North-Terrace. In 2001 the greater part of the East-Terrace and some elements on the West-Terrace have been studied. The 2002 campaign plans a completion of this item. Next, an attempt at reconstructing the statues of the West- and East-Terraces in virtual form will be made.

#### **3.2 Origins / Surroundings**

No research has been executed on the origins of the monument on Nemrud Dağ. Traces of earlier sanctuaries, settlements or human activities on the mountain are unknown.

Objective:

Survey of the surroundings of the mountain in order to trace the presence of human activities, from prehistory onwards. In the 2001 campaign the southern ring around the mountain was surveyed and studied; in the 2002 campaign we will investigate the northern ring.

#### **3.3 Inscriptions/Epigraphy**

The inscriptions at the back of the statues are known. However, a comprehensive inventory and scientific description of all inscriptions is not available.

Objective:

Study of the inscriptions found on all terraces; more texts than the hitherto published epigraphs have been noticed and can be documented:

- the large inscriptions at the back of the statues at the East- and West-Terrace,
- the older inscriptions in the sandstone pieces of the stelae at the West-Terrace,
- the recently discovered inscriptions in the stone blocks of the statues at the West-Terrace, the inscriptions on the stelae and altar blocks of the ancestors.

During the 2001 campaign a number of texts on the backs of the stelae of the West Terrace have been studied and squeezes, photographs and descriptions have been made. This documentary work has to be completed by means of taking digital photographs with a special scanning engine: the Minolta High Resolution 3D scanner. The work has to be enlarged by a documentation of the epigraphical testimonies on fragments found during the expeditions of Theresa Goell and stored in the Museum of Adıyaman.

The second step, to be executed in the future, is to obtain a *corpus* of texts, including the other inscriptions in Commagene and foreseen of a comprehensive translation and a historical interpretation. Optional is the production of copies replacing the ones Puchstein made in 1883.

#### **3.4 Catalogue / Archive**





There exists no comprehensive inventory of the pieces and artefacts scattered over the mountain itself, the villages around and the museums in Gaziantep, Adiyaman, Ankara, Berlin, etc.

Objective:

Defining the outlines of an inventory incorporating the pieces and artefacts of Nemrud Dağ. The 2002 campaign provides a study of the material in the storerooms of the museum in Adiyaman.

We therefore ask permission to be enabled to study the boxes with material from the mountain stored in the Adiyaman Museum and to documentate those artefacts.

### **3.5 Pottery studies**

The 2001 campaign established the important fact that there is indeed pottery to be found on the mountain. The study of this material, now in the Adiyaman museum, and of new finds (see 3.2) can provide important new conclusions on the function and chronology of the monument. Therefore we would like to start ceramological studies in co-operation with Dr. A. van As, Leiden University, a specialist in the field with a great knowledge of Anatolian pottery.

Objective:

Drawing and dating the finds; study the possibility of the set-up of a *reference corpus* of Commagenean pottery; set up of ethno archaeological studies in this respect.

We therefore ask permission to be enabled to study and draw last year's survey results stored in the Adiyaman Museum.

### **3.6 Documentation**

In addition to the existing methods, a documentation of the work by photo and film is planned.

## **4.0 Conservation & Restoration**

The following plan outlines the structural engineering program (4.1) and the stone conservation program (4.2) for the site work to commence in the summer of 2002.

This two-part program sets forth the proposed methodologies, work schedules, and team identification for this year's application to the Turkish Ministry of Culture.

### **4.1 Structural consolidation, conservation, repair and strengthening of Nemrud sculptures**

This Plan Proposal has been prepared on the basis of discussion and agreement during the Amsterdam meeting of December 15 - 16, 2001. The Detailed Plan will be elaborated later by synchronization with the other activities on the Project Plan 2002.

Objective of this Plan Proposal is to specify activities of structural stabilization and conservation fieldwork in the year 2002 and to define the contents of the Pilot project, the Methods and Techniques, the Engineering time for structural work, the required equipment and materials.



### **4.1.1. Objectives**

Main objectives of conservation and structural consolidation work will be:

#### **East Terrace**

- Stabilization of dislocated stones at both terraces (specially at the East terrace), bedrock stabilization north/south of the row of statues.
- Re-construction base lion/eagle, on north sides, which will be done by consolidation of existing part with necessary repair and /or strengthening and re-building of damaged parts using dry stone masonry.
- Re-erection eagle statue on prepared base.

This first part of activities should be considered as a pilot project by which methodology and techniques will be established and appropriate equipment will be checked and selected for future conservation and stabilization work.

The next activities should be considered as emergency work and is as follows:

- The Antiochos statue of the East terrace: The stabilization of the bedrock will be done as a permanent stabilization work which will consist of cleaning of deteriorated stones of bedrocks, consolidation and repair of existing cracks by injecting grout emulsion and rebuild bases below the bottom blocks of the statues.
- The Zeus statue of the East terrace: The stabilization of the bedrock will be the same as with the Antiochos statue and if necessary the repair of the first row of stones of the statue of Zeus.
- Temporary support and protection of the Antiochos statue by using wooden supports.

#### **West-Terrace**

On the West-Terrace the Engineering Team will assist the Stone Team (conservators):

- Apollo's damaged head: filling/bonding with Mr. Pagnin to find appropriate solution for structural consolidation.
- Lion horoscope + dexiosis relief (protection) shelter, to design and build light-weight shelter.
- Lion horoscope + dexiosis relief-structure repaired and strengthening on the base of study existing repaired work and to proposed solution to stone conservators to used invisible method and replaced concrete to avoid interaction in the future with sand stone.
- Assessment of bedrock condition below central statues, study feasibility for reconstruction, material condition etc.

#### **Site Management**

- Fence system to guide the tourists and protect them from the work area.

### **4.1.2. Methods and Techniques**

#### Survey and Consolidation

Structural conservation work should start after accomplishment of the preparatory field works, survey and recording activities. It will be necessary to prepare a survey plan, recording of the present conditions and positioning of each stone, numbering as well as registration and collection of all the archaeological and architectural data. If that data or plans exist, they should be made available to the structural team.



The preparatory phase will also include stone identification, storage of stones, cleaning and repair, if necessary. Preparation and consolidation of bedrock as well as soil stabilization will be carried out, if necessary.

Rebuilding should be done by dry masonry techniques. New stones will be inserted, if necessary, to provide structural stability or pieces of new stone and will be placed within severely damaged stones by repairs using stainless steel and epoxy, adequately marked and recorded. Consolidation of bedrock below the statues of Antiochos and Zeus should be done as a permanent consolidation, but supporting of the Antiochos statue will be urgent and temporary.

In the process of protection of the Lion horoscope along with all the sandstone stelae on the west terrace, the stone conservators and the engineers have to re-evaluate the stability of those already repaired stones and incorporate additional strengthening in the process of protection.

#### Hoisting Methods

In the interest of saving time, it is proposed that an auto crane be used, a small portable crane, vacuum equipment for lifting stones and other hand-tools. Vacuum techniques will be carefully tested (not on original fabric) and if it is found to be safe, effective and appropriate, it will be used later for the actual work.

### **4.1.3. Equipment & Labour**

- 1.0 autocrane
- 2.0 tractor + remorque
- 3.0 generator
- 4.0 vacuum lifting equipment
- 5.0 Portable handle small crane
- 6.0 Hand-tools
- 7.0 storage sea-containers
- 8.0 stainless steel d=12mm,50 kg.
- 9.0 Epoxy resin 20kg
- 10.0 Epoxy mortar 50-60kg
- 11.0 Micro silica, 1 bag
- 12.0 Local wooden material/ plate, rafters, etc/
- 13.0 local materials / stones
- 14.0 local labor / contractor

## **4.2 Structural conservation program**

### **4.2.1. Objectives**

The Stone Group will deal with the condition survey of the monuments on the site, in-situ testing of conservation materials and procedures as well as sampling of stone materials for subsequent analysis and laboratory testing. For this purpose, the Group can be divided into two teams, the documentation/diagnosis team (DDTeam) and the treatment testing team



(TTTeam), who on site may work independently but who will work closely with regards to laboratory testing and data analysis.

The DDTeam is composed of Prof. Bernd Fitzner and Dr. Kurt Heinrichs, as foreign participants (FP), and Ms. Evin Erder, MSc, Materials Conservation Laboratory at METU, and Dr. Ayse Tavukcuoglu, Conservation Architect, as Turkish participants.

The program for this team, which includes both site visit and laboratory studies, can be summarized as follows:

- compilation of documents and results from the previous campaign and research (FP);
- survey the lithotypes (limestone and tuffite and including quarry material) and their variability; survey and document the weathering deterioration;
- carry out the condition survey of the monuments with special reference to those documented in 1988;
- prepare the weathering damage maps for the above objects (FP);
- obtain appropriate samples for laboratory testing;
- carry out laboratory tests (analysis, accelerated weathering tests, evaluation of treatments (from TTT samples below);
- evaluate laboratory results, including comparison with previous study and preparation of a report.

The TTTeam is composed of Dr. A.Elena Charola, Dr. Eberhard Wendler and Mr. Paolo Pagnin, as foreign participants, and Dr. Emine Çaner Saltik, Conservation Scientist and Head of Materials Conservation Laboratory at METU and Assoc. Prof. Dr. Tamer Topal, Geological Engineer, as Turkish participants.

The program for this team, which includes both site visit and laboratory studies, can be summarized as follows:

- selection of objects as well as methods and products to be tested in situ;
- site testing of jointing/gluing of limestone pieces (for the eventual reconstruction/restoration of one statue);
- site testing of mortars for micro- and macro-fissures in limestone;
- site testing of injection procedures for gaps/fissures on tuffite samples;
- site testing of consolidation procedures for delaminated areas on tuffite samples;
- sampling for laboratory testing of antishrink agents (for tuffite);
- laboratory testing of antishrink agents (E.Wendler, evaluation analysis to be carried out by FP of DDTeam above);
- preliminary site evaluation of consolidation/injection procedures and first sampling for laboratory testing.
- laboratory evaluation of applied treatments;
- evaluation of results and report preparation;
- collaborate in the design of protective shelters for the most fragile objects, such as the Lion Horoscope stele.

Finally, the two teams in collaboration will prepare a risk assessment for selected objects.

It is foreseen that laboratory studies continue till mid-2004 and that a second mission will be required in 2003 to complete the project as follows:

- finalize the condition survey;
- sampling of in situ tested objects that weathered for one year;



- laboratory evaluation of these samples and completion of artificial weathering tests;
- eventual treatment of one object as pilot test.

### **4.2.3. Equipment & Labour**

#### - CONSOLIDANTS

Funcosil OH  
Funcosil 300  
Funcosil 300 E (elastified)  
Funcosil 500 E (elastified)  
Funcosil Antihygro  
Adhesive coupling agent (not available commercially)  
Ethyl Silicate

#### - ADHESIVES

Fluid Epoxy resin with slow catalyser (Araldite HY554 or equivalent)

#### - MINERAL BINDERS

Hydraulic lime (Lafarge)  
Syton 30  
Funcosil 500 STE (for injection/filling)

#### - AGGREGATES

Special quartz and clay powder  
Quartz sands  
Micronized silica, fumed silica or Rhodosil  
Calcareous stone powder

#### - SOLVENTS

Acetone  
Ethyl Alcohol  
Methyl Ethyl Ketone

## **5.0 Planning**

Start: June 3, 2002; the work will continue for a period of two months.

Note: It is possible that (parts of) the West-Terrace and East-Terrace have to be temporarily closed for the public during the works.