



Βασίλειος Θεοδώρου Ζαφειρόπουλος
(Vassilis Zafiropoulos)

Ελληνικό Μεσογειακό Πανεπιστήμιο (ΕΛΜΕΠΑ)
Σχολή Επιστημών Υγείας (ΣΕΥ)
Τμήμα Επιστημών Διατροφής & Διαιτολογίας
Εργαστήριο Διαιτητικής & Σύστασης Σώματος
Ανθρώπου



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ΟΝΟΜΑ :

ΒΑΣΙΛΕΙΟΣ ΘΕΟΔΩΡΟΥ ΖΑΦΕΙΡΟΠΟΥΛΟΣ

ΗΜ/ΝΙΑ – ΤΟΠΟΣ ΓΕΝΝΗΣΗΣ :

Οκτώβριος 1960 - Ηράκλειο Κρήτης

ΣΠΟΥΔΕΣ :

- ΠΤΥΧΙΟ Χημείας, Φυσικομαθηματική Σχολή, Αριστοτέλειο Πανεπιστήμιο Θεσσαλονίκης, 9/1978 - 3/1983
- ΔΙΔΑΚΤΟΡΙΚΟ πάνω στη Φασματοσκοπία Laser, University of Iowa, ΗΠΑ 8/1983-12/1988
ΤΙΤΛΟΣ ΔΙΔΑΚΤΟΡΙΚΟΥ: "Laser Spectroscopy of the Potassium Dimer : Photodissociation Dynamics and Laser Induced Fluorescence"
ΥΠΕΥΘΥΝΟΣ ΚΑΘΗΓΗΤΗΣ: Professor William C. Stwalley, double appointment Departments of Physics & Department of Chemistry, University of Iowa (Τελευταία διεύθυνση: Head of Department of Physics, University of Connecticut)

ΥΠΟΤΡΟΦΙΕΣ :

- * ΜΕΤΑΠΤΥΧΙΑΚΗ ΥΠΟΤΡΟΦΙΑ (Teaching & Research Assistantship, 2 και 3.5 έτη αντίστοιχα), The University of Iowa, 8/1983-12/1988
- * ΜΕΤΑΔΙΔΑΚΤΟΡΙΚΗ ΥΠΟΤΡΟΦΙΑ, CNRS (National Foundation for Research in France) Fellowship, Laboratoire de Physique des Lasers, Universite Paris-Nord, 12/1991-2/1992 (παράλληλα με την εργασία στο ΙΤΕ)

ΤΩΡΙΝΗ ΕΡΓΑΣΙΑ :

- ΚΑΘΗΓΗΤΗΣ, Γνωστικό αντικείμενο ΦΕΚ: «Φυσική με έμφαση στις μεθόδους Εφαρμοσμένης Φυσικής και στη χρήση της ακτινοβολίας για διαγνωστικούς και βιομηχανικούς σκοπούς», Ελληνικό Μεσογειακό Πανεπιστήμιο (ΕΛΜΕΠΑ), τέως ΤΕΙ Κρήτης, Σχολή Επιστημών Υγείας, Τμήμα Επιστημών Διατροφής & Διαιτολογίας, από 5/4/2012 έως σήμερα (Αναπλ. Καθηγητής από 1/4/2003 έως 4/4/2012)
- ΕΡΕΥΝΗΤΗΣ, Ινστιτούτο Αγροδιατροφής και Επιστημών Ζωής Ιν.Α.Ζω, Ερευνητικό Κέντρο Ελληνικού Μεσογειακού Πανεπιστημίου (Institute of Agri-Food and Life Sciences, Hellenic Mediterranean University Research Center, από το 2020)

ΠΡΟΗΓΟΥΜΕΝΗ ΕΡΓΑΣΙΑ/ΥΠΗΡΕΣΙΑ :

- ΕΠΙΣΤΗΜΟΝΙΚΟΣ ΣΥΝΕΡΓΑΤΗΣ, *Ίδρυμα Τεχνολογίας & Έρευνας (ΙΤΕ) – Ινστιτούτο Ηλεκτρονικής Δομής & Λέιζερ (Ι.Η.Δ.Λ.)*, 4/1990-3/2003
- ΔΙΔΑΣΚΩΝ - ΜΕΤΑΠΤΥΧΙΑΚΟ ΠΡΟΓΡΑΜΜΑ (Δια-τμηματικό) των *Τμημάτων Φυσικής και Ιστορίας-Αρχαιολογίας του Πανεπιστημίου Κρήτης*, 1/1999-5/1999, 5/2000-8/2000 και 3/2002-8/2002 (παράλληλα με την εργασία στο ΙΤΕ)
- ΕΠΙΣΚΕΠΤΗΣ ΕΠΙΚΟΥΡΟΣ ΚΑΘΗΓΗΤΗΣ, *Τμήμα Χημείας, Πανεπιστήμιο Κρήτης*, σύμβαση ορισμένου χρόνου Π.Δ. 407, 1/1993-8/1994 (παράλληλα με την εργασία στο ΙΤΕ)
- ΕΙΔΙΚΟΣ ΕΠΙΣΤΗΜΩΝ, *Τμήμα Χημείας, Πανεπιστήμιο Κρήτης*, σύμβαση ορισμένου χρόνου, 1/1991-12/1992 (παράλληλα με την εργασία στο ΙΤΕ)
- Υπηρεσία στον Ελληνικό στρατό, *δωδεκάμηνη θητεία (ως προστάτης οικογ.)* 3/1989-3/1990
- ΕΠΙΣΤΗΜΟΝΙΚΟΣ ΣΥΝΕΡΓΑΤΗΣ, *Ίδρυμα Τεχνολογίας και Έρευνας*, 1/1989-3/1989
- ΒΟΗΘΟΣ ΔΙΔΑΣΚΑΛΙΑΣ & ΒΟΗΘΟΣ ΕΡΕΥΝΗΤΗΣ, *The University of Iowa*, μεταπτυχιακή υποτροφία: Teaching Assistant 9/1983-8/1985, Research Assistant 9/1985-12/1988
- ΔΙΔΑΣΚΩΝ - Saturday & Evening Classes, *The University of Iowa*, 1/1986-12/1986 (παράλληλα με την προηγούμενη υποτροφία)
- ΦΥΣΙΚΟΧΗΜΙΚΟΣ, *Εργ/ριο Ελέγχου Ποιότητας, Πλαστικά Κρήτης*, 3/1983-7/1983

ΘΕΣΕΙΣ ΕΥΘΥΝΗΣ :

- Μέλος του Συμβουλίου Διοίκησης του *Ελληνικού Μεσογειακού Πανεπιστημίου (ΕΛΜΕΠΑ)*, από 12/2022 έως σήμερα
- Κοσμήτορας της Σχολής Επιστημών Υγείας του ΕΛΜΕΠΑ, 9/2020 έως 12/2022
- Διευθυντής *Εργαστηρίου Διαιτητικής & Σύστασης Σώματος Ανθρώπου*, 4/2016 έως σήμερα
- Πρόεδρος *Τμήματος Επιστημών Διατροφής & Διαιτολογίας, ΕΛΜΕΠΑ*, 9/2008-10/2012, 12/2017-8/2020
- Αναπλ. Πρόεδρος *Τμήματος Διατροφής & Διαιτολογίας, πρώην ΤΕΙ Κρήτης*, 9/2003-8/2008, 1/2016-8/2016 και 2/2017-8/2017
- Μέλος του πρώην Συμβουλίου (*Ιδρύματος*) πρώην ΤΕΙ Κρήτης (Νόμος 4009/2011), 10/2012-8/2016
- Μέλος της Επιστημονικής Επιτροπής Σπουδών (ΟΜΕΑ) του *Τμήματος Διατροφής & Διαιτολογίας*, 3/2004-7/2020
- Μέλος του Συμβουλίου κατά την ίδρυση του *ΙΔΒΕ (Ινστιτούτο Δια Βίου Εκπαίδευσης)*, 2/2011-1/2012
- Αναπλ. Διευθυντής Σχολής Επαγγελματιών Υγείας & Πρόνοιας (ΣΕΥΠ) του πρώην ΤΕΙ Κρήτης, 9/2010-10/2012
- Μέλος της Επιτροπής Μεταπτυχιακών Σπουδών του πρώην ΤΕΙ Κρήτης, 9/2009-10/2012
- Διευθυντής Τομέα Υγιεινής Διατροφής & Διαιτολογίας του πρώην ΚΤΕ Κρήτης, 5/2003-9/2009
- Υπεύθυνος Ερευνητικής Ομάδας, *Ίδρυμα Τεχνολογίας & Έρευνας (ΙΤΕ) – Ινστιτούτο Ηλεκτρονικής Δομής & Λέιζερ (Ι.Η.Δ.Λ.)*, 6/1995-3/2003
- Συντονιστής και Επιστημονικός Υπεύθυνος Προγραμμάτων (βλέπε παρακάτω)

ΔΙΔΑΚΤΙΚΗ ΕΜΠΕΙΡΙΑ :Στο ΕΛΜΕΠΑ

- Διδασκαλία στο *Τμήμα Επιστημών Διατροφής & Διαιτολογίας* από 1/4/2003 έως και σήμερα. Μαθήματα που διδάσκονται ή έχουν διδαχθεί στο Τμήμα: *Σύσταση Σώματος, Εργομετρία, Αρχές Φυσικής, Φυσική & Ραδιενέργεια στα Τρόφιμα, Γενική & Ανόργανη Χημεία.*
- Διδασκαλία στο Δια-Τμηματικό Πρόγραμμα Μεταπτυχιακών Σπουδών με τίτλο «Διεπιστημονική Διαχείριση των Χρόνιων Νοσημάτων, της Αναπηρίας και της Γήρανσης», με εξειδίκευση στην *Τεκμηριωμένη Διαιτητική Πρακτική στη Διαχείριση Χρόνιων Νοσημάτων και Αναπηρίας.*
- Διδασκαλία στο Μεταπτυχιακό Πρόγραμμα Σπουδών του *Τμήματος Ηλεκτρονικών Μηχανικών* της ΣΤΕΦ, “*Laser, Plasma & Applications*”: *Laser Analytical Techniques and laser Ablation Applications.*
- Επιβλέπων καθηγητής στην εκπόνηση δυο διδακτορικών διατριβών στο *Τμήμα Επιστημών & Διαιτολογίας.*
- Επιβλέπων καθηγητής σε πτυχιακές εργασίες φοιτητών

Σε άλλα Πανεπιστήμια

- Διαλέξεις στο Πρόγραμμα Μεταπτυχιακών Σπουδών «Δημόσια Υγεία & Διοίκηση Υπηρεσιών Υγείας» του Τμήματος Ιατρικής του Πανεπιστημίου Κρήτης, Εαρινό εξάμηνο 2009-2010
- Διαλέξεις στο Διατμηματικό Πρόγραμμα Μεταπτυχιακών Σπουδών του Εθνικού Μετσόβιου Πολυτεχνείου (Τμήμα Χημικών Μηχανικών – Τομέας Επιστήμης και Τεχνικής των Υλικών) με τίτλο “Προστασία Μνημείων”, 2002-2003
- Πρόσκληση σε πέντε δίωρες διαλέξεις στο Διατμηματικό Πρόγραμμα “*Baroque Architecture and its conservation*” στο Πανεπιστήμιο της Μάλτας. Θέμα των ομιλιών ήταν η χρήση της Ακτινοβολίας Laser στην Εφαρμογή του καθαρισμού μνημείων φτιαγμένων από διαφορετικά υλικά, καθώς και στην ανάλυση και διαγνωστική των μνημείων. Μάλτα, Μάρτιος 2002
- Συμμετοχή στο Ευρωπαϊκό Εκπαιδευτικό Πρόγραμμα “Culture 2000 – Laser Technology for Art craft conservation”, διαλέξεις μέσω τηλεδιάσκεψης, 5/2001.
- Συμμετοχή ως Υπεύθυνος Εργαστηρίου του Ι.Η.Δ.Λ/ΙΤΕ, στα πλαίσια του Εκπαιδευτικού Προγράμματος “ΕΠΕΑΕΚ – Πρακτική Άσκηση φοιτητών Χημείας” του Παν/μίου Κρήτης, 10/1999-12/1999
- Συνδιοργάνωση και διδασκαλία στο Πρόγραμμα Επιμόρφωσης Ευρωπαίων Συντηρητών στα πλαίσια του Ευρωπαϊκού προγράμματος RAPHAEL, Λισσαβόνα, 11/1998
- Διδασκαλία στο *Τμήμα Χημείας* του *Πανεπιστημίου Κρήτης* από 1/1991 έως 8/1994. Μαθήματα: Εργαστήριο Φυσικοχημείας, Θεωρία Ανόργανης Χημείας II
- Συν-επιβλέπων εκπόνησης Διδακτορικής διατριβής του Χαράλαμπου Θεοδωρακόπουλου – συνεργασία με το Royal College of Art του Λονδίνου, 8/2001-5/2005
- Επιβλέπων (εκ μέρους του ΙΤΕ) Διπλωματικών και Μεταπτυχιακών Εργασιών φοιτητών του Πανεπιστημίου Κρήτης/Τμήμα Φυσικής, 4/1990-3/2003
- Συν-επιβλέπων Μεταδιδακτορικής εξειδίκευσης της Δρ. Παρ. Πουλή στο Ινστιτούτο Ηλεκτρονικής Δομής & Λέιζερ του ΙΤΕ, 1998-2003

- ΔΙΔΑΣΚΩΝ - Saturday & Evening Classes, *The University of Iowa*, 1/1986-12/1986 (παράλληλα με την θέση τού Research Assistant)
- Teaching Assistant / Βοηθός Διδασκαλίας σε Εργαστηριακά μαθήματα Φυσικοχημείας κατά τη διάρκεια των δυο πρώτων ετών της εκπόνησης του Διδακτορικού, Μεταπτυχιακή Υποτροφία: Teaching Assistant, *The University of Iowa*, Department of Chemistry, 9/1983-8/1985

ΕΠΙΣΤΗΜΟΝΙΚΑ ΕΝΔΙΑΦΕΡΟΝΤΑ & ΕΠΙΣΤΗΜΟΝΙΚΗ ΕΜΠΕΙΡΙΑ :

Μετά το 2003 (Αλλαγή πεδίου έρευνας μετακινούμενος από το ΙΤΕ προς το ΕΛΜΕΠΑ)

- Principles in measuring Human Body Composition and energy consumption.
- Dietary Intervention in Schools: Measurement of Body Composition changes in children.
- Development of Optical and Physicochemical methods of measuring the Human Body Composition.
- Correlation of measurement data obtained by different methodologies of Human Body Composition. Investigation of irregularities.
- Resting Metabolic Rate (RMR) and Total Energy Expenditure (TEE) in correlation to body composition parameters.
- Adaptation of Spectroscopic Techniques for Food Quality control and on-line processing.

Πριν το 2003

- Laser Spectroscopy.
- Fundamental & Applied Research in Laser-Matter Interactions.
- Development of Prototype systems in Laser-Matter Interactions.
- Development of Methodology based on laser ablation for studying the Scalar Physicochemical properties in a Nano-scale.
- Research on Laser Applications in the Conservation of Artworks (polymerized materials, inorganic encrustation and other materials).
- Adaptation of Spectroscopic Techniques for various applications.

ΑΝΑΦΟΡΕΣ ΑΠΟ ΕΡΕΥΝΗΤΕΣ (CITATIONS):

- **Scopus:** 9.143 citations (Feb. 2025), *h*-index: 27.
<https://www.scopus.com/authid/detail.uri?authorId=7003639841>
- **Scholar Google:** 14.493 citations, *h*-index: 33. *i10*-index: 67.
<https://scholar.google.com/citations?user=c7RkFj0AAAAJ&hl=el>

ΟΡΓΑΝΩΣΗ ΔΙΕΘΝΩΝ ΣΥΝΕΔΡΙΩΝ :

- Μέλος της Οργανωτικής Επιτροπής του *Ninth International Symposium on Gas Flow and Chemical Lasers (GCL '92)*, 21-25 September, 1992
- Αντιπρόεδρος του *First International Workshop on Lasers in Conservation of Artworks (LACONA)*, 4-6 October, 1995
- Μέλος της Οργανωτικής Επιτροπής του Fifth International Conference on Optics Within Life Sciences (OWLS V), *Biomedicine and Culture in the Era of Modern Optics and Lasers*, 13-16 October, 1998

- Πρόεδρος του *COST Programme Workshop 'Environmental Effects on Artworks'*, 18-19 October, 2001
- Πρόεδρος του *International Workshop on New Trends in Laser cleaning III*, 2-4 October, 2003
- Μέλος της Οργανωτικής Επιτροπής του *7th International Conference on Laser Ablation (COLA'03)*, 5-10 October, 2003

ΣΥΜΜΕΤΟΧΗ ΣΕ ΟΜΑΔΕΣ ΕΜΠΕΙΡΟΓΝΩΜΟΝΩΝ :

- Συμμετοχή στη λίστα εμπειρογνομώνων της 12^{ης} Διεύθυνσης της Ευρωπαϊκής Κοινότητας:
 - ♦ Βρυξέλες, Φεβρουάριος 1998, κριτής στο πρόγραμμα "Standards, Measurements & Testing (SMT)"
 - ♦ Βρυξέλες, Ιούνιος-Ιούλιος 1999, κριτής στο πρόγραμμα "1.1.3 Competitive and Sustainable Growth"
 - ♦ Βρυξέλες, Απρίλιος 2001, κριτής στο υποπρόγραμμα του GROWTH "Generic Activity 2: Measurements and Testing"
 - ♦ Βρυξέλες, Νοέμβριος 2003 – Ιανουάριος 2004, κριτής στο Ευρωπαϊκό Πρόγραμμα NEST.
- Εθνικός Αντιπρόσωπος στο Ευρωπαϊκό Δίκτυο του EUREKA "EULASNET" (Οκτώβριος 2001 – 2003)
- Συμμετοχή στις κρίσεις Επιστημονικών Προτάσεων Ελληνο-Γερμανικής Συνεργασίας της Γενικής Γραμματείας Έρευνας και Τεχνολογίας (ΓΓΕΤ) (Μάρτιος 2002)
- Κριτής επιστημονικών άρθρων στα διεθνή περιοδικά *Applied Surface Science*, *Surface & Coatings Technology*, *Applied Physics A* και περιστασιακά σε άλλα περιοδικά
- Συμμετοχή σε ομάδες εμπειρογνομώνων για κρίσεις Επιστημονικών Προτάσεων σε διάφορες χώρες (2004 έως σήμερα)

ΕΜΠΕΙΡΙΑ ΣΕ ΧΡΗΜΑΤΟΔΟΤΟΥΜΕΝΑ ΕΡΕΥΝΗΤΙΚΑ, ΕΚΠΑΙΔΕΥΤΙΚΑ & ΛΟΙΠΑ ΠΡΟΓΡΑΜΜΑΤΑ :

Έργα στο ΕΛΜΕΠΑ / ΤΕΙ Κρήτης :

- "Εκπαιδευτικό πρόγραμμα προαγωγής της Κρητικής-Μεσογειακής Διατροφής στα Σχολεία της Πρωτοβάθμιας Εκπαίδευσης Κρήτης", Προγραμματική σύμβαση με Περιφέρεια Κρήτης (2024-2026)
- "Διαχείριση βάρους κατά τη μετα-Covid εποχή: Καταγραφή, παρέμβαση και προετοιμασία κλιμάκωσης στον πληθυσμό της Κρήτης, με στόχο τη βελτίωση της πρόγνωσης και τον περιορισμό των επιπτώσεων στη δημόσια υγεία", Προγραμματική σύμβαση με Περιφέρεια Κρήτης (2022-2023)
- "Sustainable food packaging based on essential oils in polymeric matrices" - [T6YBP-00307] – General Secretariat of Research and Technology, ACTIVITY OF NATIONAL CERTIFICATION: Special Actions "Aquaculture" - "Industrial Materials" - "Open Innovation in Culture" - "COMPETITIVENESS, ENTERPRISE & INNOVATION" (since 2/2020, continuing)
- "Creation of a Structure of Support - Development of the Crafts and the Social and Solidarity Economy in Crete (Support of small and very small Entrepreneurship)", code 2017ΕΠ40200005, bilateral contract with the company Ploigos (since 2018, continuing)
- "Evaluation of a WEB-based intervention promoting healthy eating among primary school children (NUTRI-WEB Children project)", Archimedes-III Programme, Ministry of Education (2012-2015).

- “Practical Training of undergraduate students in the Department of Nutrition & Dietetics of TEI of Crete”, Programmes EPEAEK & Lifelong Learning (2011-2015 & 2006-2007).
- “Γραφείο Διαμεσολάβησης στο TEI Κρήτης”, χρηματοδοτούμενο από το Επιχειρησιακό Πρόγραμμα «Ανταγωνιστικότητα» του Υπουργείου Ανάπτυξης (2007-08) και “Γραφείο Διασύνδεσης του TEI Κρήτης” χρηματοδοτούμενο από το Υπουργείο Παιδείας (2010-11)
- “Dietary Intervention in High Schools of Lassithi prefecture”, Funded by the Prefecture of Lassithi (2007-2008).
- “Experimental Nutrition”, National EPEAEK Programme, ARCHIMEDES II (2005-2007).

Προηγούμενα έργα (στο Ίδρυμα Τεχνολογίας & Έρευνας (ITE):

Συμμετοχή στην Επιστημονική Ομάδα:

- “Laser Spectroscopy of alkali dimers” (NSF, during PhD work),
- “Laser Induced Clustering”, NATO Grant (1990-92)
- “Laser based Chemical Vapor Deposition of Corrosion and Wear Resistant layers”, BRITE/EURAM – E.U. Industrial Research Programme (1991-1993)
- “Ultraviolet Laser Facility”, Human Potential - Access to Research Infrastructures Programme (1991-2003)

Επιστημονικός Υπεύθυνος / Εκπροσώπηση Ιδρύματος:

- “On-line thickness monitoring of plastic films”, bilateral contract, Plastika Kritis Inc (1989-90)
- “New Techniques for Paint Removal”, BRITE/EURAM – E.U. Industrial Research Programme (1993-1996)
- “Laser Technology in Conservation of Artworks (LATECA)” - National funding, *coordination* (1994-1998)
- “SOLON”, Development of Instrumentation for Laser Restoration Applications – Technology Transfer to ‘Art Innovation e.V.’ a spin-off company of FORTH, *coordination* (1996-1997)
- “Non-intrusive Laser Measurement Techniques for Diagnostics of the State of Conservation of Frescoes, Paintings and Wooden Icons”, E.U. Standards, Measurements & Testing (SMT) Programme (1996-1999)
- “Facades Cleaning with Laser (RESTORE)”, E.U. EUREKA project (1997-2000)
- “Applications of Lasers for Industrial Cleaning in Engineering (ALICE)”, BRITE/EURAM – E.U. Basic Research Programme (1997-2000)
- “Laser cleaning of paper and parchment (LACLEPA)”, EUREKA EU Programme (1997-2001)
- “Development of a Manufacturing and Signal Processing Technology to enable SME’s in Low Value, Small Batch Production of Polymer Composites to produce Smart Structures”, BRITE/EURAM – CRAFT EU Programme (1998-2001)
- “Enhanced Free Running Laser Device for Surface Cleaning”, PHARE-TTQM EU Programme (2000-2001)
- “Development of dedicated novel Laser systems for the Committee for the Conservation of Parthenon monuments”, bilateral R&D project (2000-2002)
- “Laser renovation of monuments and artworks (RENOVA)”, EUREKA EU Programme (2001-2003)
- “European Laser Applications Network (EULASNET)”, EUREKA Network EU Programme, *National Representative* (2001-2006)

- “Mechanized Ship Maintenance (MESHMAIN)”, GROWTH-CRAFT Industrial Research project for using Laser Radiation for Paint stripping Applications in Ship Maintenance sector (2002-2004)

Επιστημονικός Υπεύθυνος όλης της πρότασης (coordinator):

- “Application of UV-Laser Technology in Textile Processing (LATEX)”, BRITE/EURAM - Thematic Network EU Programme - Exploratory Phase (1997)
- “Advanced workstations for controlled Laser cleaning of artworks”, ENVIRONMENT – CRAFT EU Programme, *exploratory phase* (1997) & *Project* (1999-2001)
- “Artwork Conservation by Laser”, COST Action G7, participation of 23 countries worldwide (2000-2003)
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ΠΡΟΪΟΝΤΑ ΕΦΑΡΜΟΣΜΕΝΗΣ ΕΡΕΥΝΑΣ :

- Μέθοδος ακτινοβολίας Laser εύρεσης του πάχους και της τάσης πλαστικών φύλλων στη γραμμή παραγωγής και αυτόματη διάγνωση ελαττωμάτων, διμερής συνεργασία του ΙΤΕ με την εταιρεία Πλαστικά Κρήτης, 1989-1990
- Σύστημα ακτινοβολίας Laser για την επιλεκτική και αυτόματη αφαίρεση στρωμάτων από επιφάνειες υλικών. Ίδρυση εταιρείας στην Ολλανδία, στην οποία συμμετέχει το ΙΤΕ (Art Innovation b.v., Westermaatsweg 11, 7556 BW Hengelo, The Netherlands) και μεταφορά τεχνογνωσίας σ’ αυτή για το σχεδιασμό και κατασκευή εμπορικών συστημάτων, 1995-1998
- Σύστημα Laser με ακτινοβολία μήκους κύματος $\lambda = 355 \text{ nm}$ για τον καθαρισμό μνημείων και γλυπτών. Επίδειξη του συστήματος:
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