

**ΓΕΩΡΓΟΣ Α. ΦΛΟΥΔΑΣ**

Τμήμα Φυσικής

Πανεπιστήμιο Ιωαννίνων

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E-mail: [gfloudas@uoi.gr](mailto:gfloudas@uoi.gr)<http://softmatter.physics.uoi.gr/>**ΒΙΟΓΡΑΦΙΚΟ ΣΗΜΕΙΩΜΑ****Νοέμβριος 2015**

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## **I. ΠΡΟΣΩΠΙΚΑ ΣΤΟΙΧΕΙΑ**

Ημερομηνία γέννησης: 17/08/61

Τόπος γέννησης: Ιωάννινα

Οικογενειακή κατάσταση: Παντρεμένος, 2 παιδιά

Στρατιωτική θητεία: Φεβρουάριος 1986- Αύγουστος 1987

## **II. ΣΠΟΥΔΕΣ**

- Σεπτέμβριος 1987- Νοέμβριος 1990: Διδακτορικό στη Φυσική, Πανεπιστήμιο Κρήτης
- Σεπτέμβριος 1983- Δεκέμβριος 1985: Masters στη Φυσική, Rensselaer Polytechnic Institute (RPI), Troy, New York
- Σεπτέμβριος 1979- Ιούλιος 1983: Πτυχίο στη Φυσική, Αριστοτέλειο Πανεπιστήμιο Θεσσαλονίκης (ΑΠΘ)

## **III. ΕΡΕΥΝΗΤΙΚΗ ΕΜΠΕΙΡΙΑ**

### **A. Σε μόνιμη θέση ερευνητή**

- Δεκέμβριος 2006 - σήμερα: Καθηγητής Τμήματος Φυσικής, Πανεπιστημίου Ιωαννίνων
- Φεβρουάριος 2001- Νοέμβριος 2006: Αναπληρωτής Καθηγητής Τμήματος Φυσικής, Πανεπιστημίου Ιωαννίνων
- Φεβρουάριος 1998-Ιανουάριος 2001: Ερευνητής Β' βαθμίδας (Ι.Τ.Ε.- Ι.Η.Δ.Λ.)
- Φεβρουάριος 1995-Ιανουάριος 1998: Ερευνητής Γ' βαθμίδας (Ι.Τ.Ε.-Ι.Η.Δ.Λ.)
- Απρίλιος 1994-Ιανουάριος 1995: Ερευνητής (Ι.Τ.Ε.-Ι.Η.Δ.Λ.)
- Απρίλιος 1992-Μάρτιος 1994: Ερευνητής σε οργανική θέση του Ινστιτούτου Max-Planck για πολυμερή υλικά, Mainz, Γερμανία.
- Ιανουάριος 1991 – Μάρτιος 1992: Μεταδιδακτορικός ερευνητής του Imperial College, Τμήμα Χημικών Μηχανικών, Λονδίνο, Ηνωμένο Βασίλειο.

### **B. Σε θέση επισκέπτη ερευνητή**

- Επισκέπτης ερευνητής του Ινστιτούτου Max-Planck για πολυμερή υλικά, Mainz, Γερμανία (από το 1996).
- Εκπαιδευτική άδεια (2012) Ινστιτούτο Max-Planck για πολυμερή υλικά, Mainz, Γερμανία
- Επισκέπτης ερευνητής του Γερμανικού Ινστιτούτου Πλαστικών (Deutsches Kunststoff Institut), Darmstadt, Γερμανία (Φεβρουάριος 1997, Φεβρουάριος 1996).
- Επισκέπτης ερευνητής του Ινστιτούτου Φυσικοχημείας του Πανεπιστημίου της Uppsala (Δεκέμβριος 1990, Φεβρουάριος 1992).
- Επισκέπτης ερευνητής των κέντρων για πειράματα σκέδασης ακτίνων Χ, νετρονίων:
  - Brookhaven National Laboratory, Long Island, NY (Νοέμβριος 2004, Ιούνιος 2002, Ιούλιος 2001, Αύγουστος 2000, Αύγουστος 1999, Αύγουστος 1998, Αύγουστος 1997, Ιούλιος 1995)
  - Daresbury, UK (Απρίλιος 2002, Φεβρουάριος 2000)
  - CE-Saclay και ILL- Grenoble, Γαλλία (1994)
  - Rutherford Appleton Laboratory, ISIS, Didcot, Ηνωμένο Βασίλειο (1991-1992-1993)

#### IV. ΔΙΑΚΡΙΣΕΙΣ – ΕΜΠΕΙΡΙΑ

- Μέλος (αναπλ.) Περιφερειακού Συμβουλίου Έρευνας και Καινοτομίας (ΠΣΕΚ) Περιφέρειας Ηπείρου (2015 - ).
- Μέλος Ε.Σ.Ε.Τ.- Τ.Ε.Σ. Φυσικών Επιστημών (2014 - ) (Φ.Ε.Κ. 641 - 16 Οκτ. 2014).
- Μέλος Ε.Σ.Ε.Τ.- Τ.Ε.Σ. Φυσικών Επιστημών (2011-2014) (Φ.Ε.Κ.163 - 6 Ιουν. 2011).
- Εκλεγμένο μέλος του Διοικητικού Συμβουλίου του Διεθνούς Οργανισμού Διηλεκτρικών (International Dielectric Society - IDS) (<http://the-dielectric-society.org/board>) (2002 - σήμερα)
- Εκλεγμένο μέλος του Διοικητικού Συμβουλίου της Ελληνικής Εταιρείας Πολυμερών (2006 - 2012).
- Τιμητική διάκριση από τον Σύλλογο για την προαγωγή του Ινστιτούτου Max-Planck για πολυμερή υλικά για «..την πρωτοποριακή του έρευνα και την εξαιρετική του απόδοση στη μελέτη της δομής και της δυναμικής πολυμερών» 20 Ιουλίου, 2007. ([http://www.mrip-mainz.mpg.de/www/pages/aktuelles/pressemitteilungen/?year=2007#kap\\_38](http://www.mrip-mainz.mpg.de/www/pages/aktuelles/pressemitteilungen/?year=2007#kap_38), <http://idw-online.de/pages/de/news219670>, <http://www.sciencz.de/ticker/art8944.html>).
- Επισκέπτης Ερευνητής (Senior Visiting Scientist) του Ινστιτούτου Max-Planck για πολυμερή υλικά, Mainz, Γερμανία (από το 2006) "σε αναγνώριση της προσφοράς του στο πεδίο της Φυσικής των Πολυμερών».
- Συνεργαζόμενο μέλος ΔΕΠ Ινστιτούτου Βιοϊατρικών Ερευνών (IBE-ITE) (2002-2012). (<http://www.bri.forth.gr/administration-personnel/administration-personnel3.html>)
- Μέλος του editorial board του περιοδικού "Colloid and Polymer Science" (2008-σήμερα) (<http://www.springer.com/chemistry/polymer/journal/396?detailsPage=editorialBoard>)
- Μέλος του editorial board του περιοδικού "Macromolecular Chemistry and Physics" (2009-σήμερα) ([http://www.wiley-vch.de/publish/en/journals/alphabeticIndex/2261/?jURL=http://www.wiley-vch.de:80/vch/journals/2261/2261\\_edbd.html](http://www.wiley-vch.de/publish/en/journals/alphabeticIndex/2261/?jURL=http://www.wiley-vch.de:80/vch/journals/2261/2261_edbd.html))
- Μέλος του International Advisory Board των συνεδρίων: *Polymer Blends*: San Sebastian (2012), Dresden (2010), *Broadband Dielectric Spectroscopy*: Wisla (2014), Leipzig (2012), Madrid (2010), Lyon (2008), Poznan (2006), Delft (2004), Leipzig (2002), GraphEL(2012), 12th European Conference on Liquid Crystals, Rhodes (2013) (Member of Organizing Committee).
- Κύριος ομιλητής (Invited/Keynote Speaker) στο Gordon Research Conference (Elastomers, 1999) καθώς και σε 40 άλλα διεθνή συνέδρια στο εξωτερικό. 85 προφορικές ανακοινώσεις σε διεθνή συνέδρια (170 συνολικά ανακοινώσεις σε 140 συνέδρια) και 65 προσκεκλημένες ομιλίες σε πανεπιστήμια και ερευνητικά κέντρα.
- Διαλέξεις μετά από πρόσκληση στα Πανεπιστήμια: Harvard, MIT, Princeton, Cornell, Moscow State, Imperial College, SUNY-Stony Brook, Penn State, Univ. Leipzig, Univ. Dresden, Univ. Leeds κ.α.
- Ενίσχυση βασικής έρευνας Εμπειρικού Ιδρύματος 1999.
- SERC-ICI υποτροφία (SERC-ICI cooperative award), Ιανουάριος 1991-Μάρτιος 1992.
- Πρώτο βραβείο παρουσίασης στο Πανελλήνιο Συνέδριο Φυσικής Στερεάς Κατάστασης, Ηράκλειο 1990, για την εργασία «Μοριακές Κινήσεις σε Υαλώδη Πολυμερή»
- Μεταπτυχιακές υποτροφίες: Τμήμα Φυσικής, Πανεπιστήμιο Κρήτης και Ι.Τ.Ε. (1987-1990); RPI (1983-1985), Ιδρύματος Κρατικών Υποτροφιών (Ι.Κ.Υ.) (1980-1983).
- Αποφοίτηση από το Α.Π.Θ. τον Ιούλιο του 1983 με τον μεγαλύτερο βαθμό (8.00/10.00) μεταξύ των εισακτέων του 1979 (περίπου 150 φοιτητές).

## **V. ΕΡΕΥΝΗΤΙΚΑ ΕΝΔΙΑΦΕΡΟΝΤΑ**

### Γενικά

- Κατανόηση και Πρόβλεψη Σχέσεων Δομής-Ιδιοτήτων Σύνθετων Υλικών
- Φυσική Εύπλαστης ύλης: Πολυμερή, Βιοπολυμερών και Υροί Κρύσταλλοι

### Ειδικότερα

Χρήση διηλεκτρικής φασματοσκοπίας και τεχνικών σκέδασης για τη μελέτη:

- Αυτο-οργάνωση, Διαμόρφωση και Δυναμική Συνθετικών και Βιολογικών Μακρομορίων
- Δυναμική Μακρομορίων κοντά στο Σημείο Υάλου
- Δομή, Αυτο-οργάνωση και Δυναμική Νανο-δομημένων Υλικών
- Κρυστάλλωση Συνθετικών και Βιολογικών Μακρομορίων
- Δυναμική Εύπλαστης Ύλης σε Περιορισμένες Γεωμετρίες - Επιφάνειες

## **VI. ΔΙΔΑΚΤΙΚΗ ΕΜΠΕΙΡΙΑ**

### **Μεταπτυχιακά Μαθήματα**

- Φυσική Στερεάς Κατάστασης (Τμήμα Φυσικής, Πανεπιστήμιο Ιωαννίνων) (2001-2007)
- Επιστήμη των Υλικών (Τμήμα Φυσικής, Πανεπιστήμιο Ιωαννίνων) (2006-2015)
- Φυσικές Ιδιότητες Πολυμερών: Σχέσεις Δομής/Ιδιοτήτων (Τμήμα Χημείας, Μεταπτυχιακό Πρόγραμμα ΕΠΕΑΕΚ, Πανεπιστήμιο Αθηνών) (1998-2004)
- Δυναμική Πολυμερών (Τμήμα Χημικών Μηχανικών, Μεταπτυχιακό Πρόγραμμα ΕΠΕΑΕΚ, Α.Π.Θ.) (1999)
- Πολυμερικά Στερεά (Τμήμα Φυσικής, Πανεπιστήμιο Κρήτης) (1998)

### **Προπτυχιακά Μαθήματα**

- Φυσική Στερεάς Κατάστασης I (Τμήμα Φυσικής, Πανεπιστήμιο Ιωαννίνων) (2013- )
- Φυσική IV- Θερμοδυναμική (Τμήμα Φυσικής, Πανεπιστήμιο Ιωαννίνων) (2001-2011)
- Φυσική Στερεάς Κατάστασης II (Τμήμα Φυσικής, Πανεπιστήμιο Ιωαννίνων) (2013- )
- Πολυμερικά Στερεά (Τμήμα Φυσικής, Πανεπιστήμιο Ιωαννίνων) (2001-2015)
- Επιστήμη των Υλικών ((Τμήμα Φυσικής, Πανεπιστήμιο Ιωαννίνων) (2006-2015)
- Πολυμερικά Στερεά I (Τμήμα Φυσικής, Πανεπιστήμιο Κρήτης) (1999-2001)
- Φυσικοχημεία IV- Φασματοσκοπία (Τμήμα Χημείας, Πανεπιστήμιο Κρήτης) (1995) (συνδιδασκαλία με τον κ. Γ. Φυτά)
- 1983-1985 and 1987-1990: Φυσική I, II, III (Τμήμα Φυσικής, Πανεπιστήμιο Κρήτης) και Φυσικοχημεία I (Τμήμα Χημείας, Πανεπιστήμιο Κρήτης)

## VII. ΕΠΙΒΛΕΨΗ ΦΟΙΤΗΤΩΝ/ΜΕΤΑΔΙΔΑΚΤΟΡΙΚΩΝ ΕΡΕΥΝΗΤΩΝ

### A. Μεταδιδακτορικοί Ερευνητές

1. Dr. G. Zardalidis (1015 - )
2. Dr. G. Papamokos (2015 - )
3. Dr. A. Iosifidis (2014)
4. Dr. M. Blochowiak (2006-2007) (MPI-P)
5. Dr. M. Mierzwa (2000-2001) (ITE)
6. Dr. F. Schipper (2000-2002) (Υποτροφία Marie-Curie) (ITE)
7. Δρ. Κ. Κασσαπίδου (2000-2001) (ITE)
8. Dr. D. Lellinger (1998, 1999) (Σε συνεργασία με τον Καθ. I. Alig, Darmstadt) (ITE)
9. Δρ. Σ. Πίσπας (1994, 1998) (Σε συνεργασία με τον Καθ. Ν. Χατζηχρησιδίη) (ITE)

### B. Διδάκτορες

1. Π. Παπαδόπουλος (2001-2005) (Τμήμα Φυσικής, Πανεπιστήμιο Ιωαννίνων) (Υποτροφία ΠΕΝΕΔ2001). Θέμα Διατριβής: «*Αυτο-οργάνωση και δυναμική πολυπεπτιδίων*»
2. Κ. Μπουκουβάλας (2001-2006) (Τμήμα Φυσικής, Πανεπιστήμιο Ιωαννίνων) (Υποτροφία ΠΕΝΕΔ2001). Θέμα Διατριβής: «*Επίδραση της πίεσης στη δυναμική πολυμερών και μιγμάτων πολυμερών*»
3. Μ. Elmahdy (2003-2007) (Τμήμα Φυσικής, Πανεπιστήμιο Ιωαννίνων) (Υποτροφία ΙΚΥ). Θέμα Διατριβής: «*Αυτο-οργάνωση και δυναμική υγρών κρυστάλλων*»
4. Α. Γίτσας (2003-2008) (Τμήμα Φυσικής, Πανεπιστήμιο Ιωαννίνων) (Υποτροφία ΠΕΝΕΔ2003). Θέμα Διατριβής: «*Επίδραση της Αρχιτεκτονικής και του περιορισμού στην αυτοοργάνωση και τη δυναμική πολυπεπτιδίων*»
5. Μ. Blochowiak (2004-2006) (Ινστιτούτο Max Planck για πολυμερικά υλικά). Θέμα Διατριβής: «*Structure and properties of norbornene-ethylene copolymers*»
6. Χ. Γρηγοριάδης (2011-2014) (Τμήμα Φυσικής, Πανεπιστήμιο Ιωαννίνων). Θέμα Διατριβής: «*Δισκόμορφοι Υγροί Κρύσταλλοι Γραφενίου: Αυτο-οργάνωση και δυναμική*»
7. Γ. Ζαρδαλίδης (2012-2015) (Τμήμα Φυσικής, Πανεπιστήμιο Ιωαννίνων). Θέμα Διατριβής: «*Επίδραση της Δομής στην Ιοντική Αγωγιμότητα Πολυμερών και Συμπολυμερών*»
8. Υ. Suzuki (2012-2015) (Ινστιτούτο Max Planck για πολυμερικά υλικά). Θέμα Διατριβής: «*How different is water crystallization from polymer crystallization under confinement?*»

### Γ. Επισκέπτες Υποψήφιοι Διδάκτορες - σε συνεργασία με άλλους Καθηγητές/Ερευνητές

1. M<sup>a</sup> Pilar Ortiz Serna (2006) (Universidad Politécnica de Valencia, σε συνεργασία με τον Prof. Diaz Calleja)
2. T. Reisinger (1998) (MPI-P, Mainz, σε συνεργασία με τον Prof. G. Wegner)
3. A. Gottwald (1999) (University of Dresden, σε συνεργασία με τον Prof. M. Stamm)
4. J. Pathak (1998, 1999) (Penn State, σε συνεργασία με τον Prof. R. Colby)
5. A. Wewerka (1999) (Technical University of Graz, σε συνεργασία με τον Prof. F. Stelzer)
6. Κ. Kratze (1998) (Deutsches Kunststoff Institut, σε συνεργασία με τον Prof. I. Alig)
7. Β. Βαζαίου (2000), Π. Χονδροκούκης (2000), Σ. Παρασκευά (1997), Γ. Βελής (1997), Γ. Κουτάλας (2002), Ρ. Δούναβη (2003) (Τμήμα Χημείας, Πανεπιστήμιο Αθηνών, σε συνεργασία με τον Καθ. κ. Χατζηχρησιδίη).

**Δ. Μ.Δ.Ε.**

1. Γ. Ζαρδαλίδης (2011) (Τμήμα Φυσικής, Πανεπιστήμιο Ιωαννίνων). Θέμα Μ.Δ.Ε.: «Κατανόηση και αντιλήψεις των φοιτητών του τετάρτου εξαμήνου σε θέματα θερμοδυναμικής»
2. Χ. Γρηγοριάδης (2011) (Τμήμα Φυσικής, Πανεπιστήμιο Ιωαννίνων). Θέμα Μ.Δ.Ε.: «Αυτο-οργάνωση και Δυναμική Δισκόμορφων Υγρών Κρυστάλλων Γραφενίου»

**Ε. Προπτυχιακοί φοιτητές (Διπλωματικές Εργασίες)**

1. Β. Μαργαρίτης (2015) (Τμήμα Φυσικής, Πανεπιστήμιο Ιωαννίνων)
2. Π. Πανάγος (2014) (Τμήμα Φυσικής, Πανεπιστήμιο Ιωαννίνων)
3. Ν. Τάσιος (2009) (Τμήμα Φυσικής, Πανεπιστήμιο Ιωαννίνων)
4. Χ. Γρηγοριάδης (2008) (Τμήμα Φυσικής, Πανεπιστήμιο Ιωαννίνων)
5. Ν. Γομόπουλος (2003-2004) (Τμήμα Φυσικής, Πανεπιστήμιο Ιωαννίνων)
6. Α. Γίτσας (2001-2003) (Τμήμα Φυσικής, Πανεπιστήμιο Ιωαννίνων)
7. Ε. Ιωάννου (2001-2003) (Τμήμα Φυσικής, Πανεπιστήμιο Ιωαννίνων)
8. Δ. Περιστεράκη (2002-2003) (Τμήμα Φυσικής, Πανεπιστήμιο Ιωαννίνων)
9. Χ. Γραβαλίδης (1998-1999) (Τμήμα Φυσικής, Πανεπιστήμιο Κρήτης και ΙΤΕ)
10. Λ. Πετυχάκης (1997-1998) (Τμήμα Χημείας, Πανεπιστήμιο Κρήτης και ΙΤΕ)

**VIII. ΚΡΙΤΗΣ ΕΡΕΥΝΗΤΙΚΩΝ ΑΡΘΡΩΝ ΚΑΙ ΕΡΕΥΝΗΤΙΚΩΝ ΠΡΟΤΑΣΕΩΝ**

- Κριτής εργασιών που έχουν υποβληθεί για δημοσίευση στα παρακάτω επιστημονικά περιοδικά:

Macromolecules	Macromolecular Chemistry and Physics
Journal of Chemical Physics	Macromolecular Materials and Engineering
Physical Review Letters	Journal of Polymer Science
Journal of Physics	The European Physical Journal
Journal of Non-Cryst. Solids	Polymer Engineering and Science
Colloid and Polymer Science	IEEE Trans. on Diel. and El. Insulation
Polymer	Progress in Polymer Science
European Polymer Journal	Chem. Phys. Phys. Chem.
Polymer Bulletin	Phys. Rev. E
Biomacromolecules	Synthetic Metals
J. Applied Polymer Science	Composite Science and Technology
Fluid Phase Equilibria	Rheologica Acta
Journal of Nanostructured Polymers and Nanocomposites (JNPN)	eXPRESS Polymer Letters
J. Am. Chem. Soc.	The Journal of Physical Chemistry
Int. J. of Molecular Sciences (IJMS)	Advanced Functional Materials
Crystal Growth and Design	Small
ACS Macro Letters	Soft Matter

- Κριτής ερευνητικών προτάσεων που υποβλήθηκαν για χρηματοδότηση στο ERC-AdG (2015), National Science Foundation (NSF) (Η.Π.Α.) (1997, 1999, 2002, 2004, 2005, 2006, 2008, 2009, 2010, 2013), NATO (1998), ΓΓΕΤ (2005), ΥΠΕΠΘ (Ηράκλειτος ΙΙ, 2009), Επιτροπή Ερευνών Πανεπιστημίου Πατρών (2009, 2010, 2013), French National Research Agency (ANR) (2009), Research Promotion Foundation of Cyprus (2010, 1011)

## IX. ΣΥΝΕΡΓΑΣΙΕΣ

- Παν/μιο Ιωαννίνων: Τμήμα Φυσικής, Τμήμα Χημείας, Τμήμα Επιστήμης και Τεχνολογίας Υλικών
- Παν/μιο Αθηνών: Τμήμα Χημείας
- Παν/μιο Κρήτης: Τμήμα Επιστήμης Υλικών, Τμήμα Εφαρμοσμένων Μαθηματικών και ΙΤΕ (ΙΗΔΛ).
- Πανεπιστήμιο Πατρών, Τμήμα Χημείας και Τμήμα Χημικών Μηχανικών.
- Εθνικό Ίδρυμα Ερευνών, Ινστιτούτο Θεωρητικής και Φυσικής Χημείας (ΙΘΦΧ)
- Ινστιτούτο Max-Planck, Mainz, Γερμανία (Prof. Dr. E.W. Fischer†, Prof. Dr. G. Wegner, Prof. Dr. T. Pakula†, Prof. Dr. H.-J. Butt, Prof. Dr. H.W. Spiess, Prof. Dr. K. Müllen, Prof. Dr. K. Kremer, Dr. R. Graf)
- State University of New York at Stony Brook, Τμήμα Χημείας (Prof. B. Chu)
- Moscow State University, Τμήμα Φυσικής, (Prof. A. Khokhlov, Prof. I. Erukhimovich)
- Naval Research Laboratory (Dr. K.L. Ngai)
- University of Leeds, Τμήμα Εφαρμοσμένων Μαθηματικών (Prof. A.N. Semenov) και Τμήμα Χημείας (Prof. I. Hamley)
- Deutsches Kunststoff Institut (Priv.-Doz. I. Alig)
- Institute of Polymer Research, Dresden (Prof. Dr. M. Stamm)
- University of Freiburg (Dr. G. Reiter)
- C.N.R.S.-Le Mans (Dr. T. Nicolai)
- Imperial College, Dept. of Chemical Engineering (Prof. J.S. Higgins)
- Bundesanstalt für Materialforschung und -prüfung, Berlin (Dr. A. Schoenhals)
- Penn State (Prof. J. Runt, Prof. R. Colby)
- Cornell University, Dept. of Materials Science (Prof. U. Wiesner, Prof. E. Gianellis)
- Ecole Polytechnique Federal de Lausanne (Prof. H.-A. Klok)
- Ghent University, Belgium (Prof. F. du Prez)
- Carnegie Mellon University, Τμήμα Χημείας (Prof. K. Matyjaszewski)
- University of Valencia (Prof. Diaz Calleja)
- University of Mainz (Prof. Dr. Zentel)
- Dartmouth College (Prof. J.E.G. Lipson)
- Katholieke Universiteit Leuven (Prof. J. Hofkens)
- Materials Engineering Department, TOBB Economy and Technology University, Ankara, Turkey (Prof. H. Duran).
- Université Libre de Bruxelles (Prof. Y. Geerts)



## X. ΧΡΗΜΑΤΟΔΟΤΗΣΗ ΕΡΕΥΝΗΤΙΚΟΥ ΕΡΓΟΥ (ΕΥ: Επιστημονικά Υπεύθυνος)

### ΧΡΗΜΑΤΟΔΟΤΗΣΗ ΤΡΕΧΟΝΤΟΣ ΕΡΕΥΝΗΤΙΚΟΥ ΕΡΓΟΥ

#### [1] ARISTEIA I (EXCELLENCE)

*Title:* "Soft Matter under Hard Confinement"

*Project Description:* A principal focus of the work is finding the basic underlying principles that give rise to directed self-organization and controlled phase state in a range of soft materials under confinement. This ambitious but realistic approach requires a methodology that includes the synthesis of the hard templates as well as structural, thermodynamic and dynamical characterization in a number of soft materials with different types of interactions. These include *crystallizable polymers, amphiphilic molecules, liquid crystals* and *biopolymers* with important potential applications. It further requires the implementation of different but complementary techniques with high spatial and temporal resolution, operating over broad space and time scales. The expected results include understanding the role of confinement on the type of nucleation and overall crystallinity (polymeric nanofibers with tunable mechanical, electrical and optical properties), the stability of liquid crystal phases (liquid crystal display industry) and the design of membranes based on the functionality of biopolymers located in nanopores

*Coordinator:* GF

*Research Team:* University of Ioannina, MPI-P (H.-J. Butt), University of Osnabrueck (Prof. M. Steinhart), H. Duran (Ankara).

*Duration:* 1/2/2012-30/9/2015

*Budget:* 300000 €.

[2] *Title:* European Social Fund & National Sources, in the framework of program NSRF 2008-2013 for the region of Epirus - Network of Research supporting laboratories of the University of Ioannina: *Large scale facility on dynamics (dielectric spectroscopy/rheology)*.

*Project Description:* State-of-the-art instrumentation on dielectric spectroscopy/rheology for soft matter research. The dielectric spectrometer (Novocontrol concept 40) includes: high resolution (minimum  $\delta \sim 2 \times 10^{-5}$ ), dielectric analyzer ALPHA-ANB with DC-Bias  $\pm 40$  V (70 mA), with a frequency range from 3  $\mu$ Hz to 20 MHz, active head sample cell ZGS, QUATRO temperature controller for measurements in the range from -160 to +400 °C. In addition the lab at the UoI is equipped with a second dielectric spectrometer and with pressure-dependent dielectric spectroscopy for pressures in the range from 1 to 1000 atm. The rheometer (TA Instruments, model AR-G2) includes a magnetic bearing that allows for low nano-torque control (minimum torque: 0.01  $\mu$ N·m, maximum torque: 200 mN·m, torque resolution: 0.1 nN·m, displacement resolution: 25 nrad). It is equipped with Peltier plates, Environmental test chamber for temperature control from -160 to +600 °C, camera with image capture, and small-angle light scattering unit for simultaneous rheology/scattering measurements (scattering angles from 6 to 26.8°, corresponding length scale from 1 to 4.6  $\mu$ m).

*Coordinator:* GF

*Duration:* 1/2/2011-

*Budget:* 230000 €.

#### [3] THALIS

*Title:* Self-assembly and dynamics in metastable states. From molecular and supramolecular to mesoscopic systems (META-ASSEMBLY).

*Project Description:* States away from equilibrium is a growing, interdisciplinary research field with yet unknown basic principles and many similarities to the biological world. It is known, however, that the cooperative nature of metastability, the associated slow kinetics and the complexity in phase space are related to the existence of long range forces and to strong spatial and temporal correlations. Under equilibrium conditions, often unattainable, the number of self-assembling structures is limited and is given by equilibrium thermodynamics. On the contrary, under non-equilibrium conditions, a plethora of new self-assembled structures is formed. A principal focus of the work will be on finding the basic underlying principles that give rise to self-assembly in a range of systems where structural and kinetic frustration is provided by different means. This approach includes molecular (discotic liquid crystals, DLC), supramolecular (multivalent copolymers) and mesoscopic (hybrid core-shell nanoparticles) systems with important potential applications. It further requires the implementation of different but complementary techniques with high spatial and temporal resolution and over broad space and time scales as well as simulation/theory.

*Coordinator:* GF

*Research Team:* University of Ioannina, University of Crete, FORTH-IESL, NTUA, MPI-P (K. Müllen, H.W. Spiess), CMU (K. Matyjaszewski, M. Bockstaller), Eindhoven (E.W. Meijer).

*Duration:* 1/1/2012-30/9/2015

*Budget:* 521740 € (111000 € for UoI).

#### ΧΡΗΜΑΤΟΔΟΤΗΣΗ ΠΑΡΕΛΘΟΝΤΟΣ ΕΡΕΥΝΗΤΙΚΟΎ ΕΡΓΟΥ

##### [1] ΗΡΑΚΛΕΙΤΟΣ ΙΙ

«Δισκόμορφοι υγροί κρύσταλλοι γραφενίου: αυτό-οργάνωση και δυναμική» (2011-2014)(45000€) (ΕΥ)

[2] ΕΣΠΑ 2007-2013, Ε.Π. «Θεσσαλίας-Στερεάς Ελλάδας- Ηπείρου 2007-2013», Άξονας Προτεραιότητας 9, Κωδικός Προτεραιότητας 02 «Υποδομή Έρευνας και Τεχνολογικής Ανάπτυξης και Κέντρα Αναγνωρισμένου Κύρους σε Εξειδικευμένη Τεχνολογία» (230.000 €) (ΕΥ).

[3] Κοινωφελές Ίδρυμα Ιωάννη Σ. Λάτση, Μελέτες 2010 (12.000 €) (ΕΥ).

«Δισκόμορφοι Υγροί Κρύσταλλοι Γραφενίου: αυτο-οργάνωση και δυναμική».

[4] ΓΓΕΤ-ΠΕΝΕΔ2003 με τη συμμετοχή του Παν/μίου Ιωαννίνων (Ανάδοχος Φορέας), Παν/μίου Πατρών, Ε.Μ.Π., Πλαστικών Θράκης, ΙΤΕ-ΙΗΔΛ

«Μελέτη της επίδρασης εξωτερικής πίεσης στη μορφολογία και δυναμική βιομηχανικού πολυπροπυλενίου» (2005-2008) (211.500 €) (ΕΥ)

##### [5] ΕΠΕΑΕΚ- ΠΥΘΑΓΟΡΑΣ

«Επίδραση φυλλόμορφων αργίλων στη μορφολογία και τις ιδιότητες κρυσταλλικών, νανοδομημένων και βιοαποικοδομήσιμων πολυμερών» (2004-2006) (80.000 €) (ΕΥ)

##### [6] ΕΠΕΑΕΚ- ΗΡΑΚΛΕΙΤΟΣ

«Δομή και δυναμική βιολογικών μακρομορίων» (2003-2005) (34.303 €) (ΕΥ)

[7] ΓΓΕΤ-ΠΕΝΕΔ2001 με τη συμμετοχή του Παν/μίου Ιωαννίνων (Ανάδοχος Φορέας), Παν/μίου Πατρών, Ε.Μ.Π., Πλαστικών Θράκης

«Πειραματική και θεωρητική μελέτη πολυπροπυλενίου για βιομηχανικές εφαρμογές» (2002-2005) (170.158 €) (ΕΥ)

[8] Alexander von Humboldt Stiftung (AvH), Forschungskooperation Europa, Χρηματοδότηση βασικής έρευνας (1996-99) (108.355 DM) (ΕΥ)

“Statics, Kinetics and Dynamics of Model Copolymers near the Microphase Separation”

- [9] ΓΓΕΤ-ΠΕΝΕΔ1996, Πρόγραμμα Ενίσχυσης Ερευνητικού Δυναμικού (8.000.000 δρχ.) "Αυτοοργάνωση σε διυσταδικά ραβδόμορφα-εύκαμπτα συμπολυμερή. Σύνθεση, Δομή και Ιδιότητες" (ΕΥ)
- [10] Han Wha Research Group, Daejeon, Korea  
"Synthesis and Characterization of Compatibilizers for Polyolefin/Polar Polymer Based Blends" (1996-1998) (40.000 \$/year) (ΕΥ)
- [11] Ελληνο-Γαλλική διακρατική συνεργασία (Ε.Ι.Ε.-C.N.R.S.) με το Laboratoire de Chimie et Physico-Chimie Macromoleculaire , Le Mans (1997) (ΕΥ)
- [12] Collaborative Research Grant (Prof. B. Chu, SUNY Stony Brook) (CRG 970551)  
"Block Copolymers based on Amorphous/Crystalline Polymers. Phase State and Dynamics" (1997-1999) (210.000 BF) (ΕΥ)
- [13] TMR-Research Network (No FMRX-CT97-0122) με τη συμμετοχή: Riso National Laboratory, University of Leeds, University of Sheffield, Max-Planck Institut für Polymerforschung, University of Athens (1998-2000) (216.000 ECU)
- [14] Ελληνο-Γαλλική διακρατική συνεργασία (Ε.Ι.Ε.-C.N.R.S.) με το Institute de Chimie des Surfaces et Interfaces (Dr. G. Reiter) Mulhouse (1998) (ΕΥ)
- [15] Ενίσχυση βασικής έρευνας Εμπειρικού Ιδρύματος (1999) (2.000.000 δρχ) (ΕΥ)
- [16] Ελληνο-Γερμανική διακρατική συνεργασία με το Ινστιτούτο Max-Planck für Polymerforschung, Mainz (1999-2001) (4.410.000 δρχ) (ΕΥ)
- [17] ΓΓΕΤ-ΠΕΝΕΔ1999 με τη συμμετοχή του Παν/μίου Πατρών (Ανάδοχος Φορέας), Παν/μίου Αθηνών «Πειραματική και Θεωρητική Μελέτη της Κρυστάλλωσης Πολυμερών από Στάσιμα και Ρέοντα Τήγματα» (19.000.000 δρχ) (ΕΥ)

## **XI. ΔΙΟΙΚΗΤΙΚΟ ΕΡΓΟ – ΕΜΠΕΙΡΙΑ ΣΕ ΘΕΣΕΙΣ ΕΥΘΥΝΗΣ**

- Μέλος (αναπλ.) Περιφερειακού Συμβουλίου Έρευνας και Καινοτομίας (ΠΣΕΚ) Περιφέρειας Ηπείρου (2015 - ).
- Μέλος Ε.Σ.Ε.Τ.- Τ.Ε.Σ. Φυσικών Επιστημών (2014 -) (Φ.Ε.Κ. 641 - 16 Οκτ. 2014).
- Μέλος Ε.Σ.Ε.Τ.- Τ.Ε.Σ. Φυσικών Επιστημών (2011 - 2014) (Φ.Ε.Κ. 163 - 6 Ιουνίου 2011).
- Διευθυντής Τομέα IV, Τμήματος Φυσικής (2006-2007)
- Μέλος ΣΕΜΣ Τμήματος Φυσικής (2001-2015), Μέλος Γ.Σ. Τμήματος Φυσικής (2001, 2003-2015)
- Μέλος εισηγητικής επιτροπής εκλογής Διευθυντού και Ερευνητών Δημόσιων Ερευνητικών Κέντρων (ΙΤΕ, ΕΙΕ).
- Μέλος εισηγητικής επιτροπής εκλογής μελών ΔΕΠ των Πανεπιστημίων: Ιωαννίνων (Τμήμα Φυσικής, Τμήμα Επιστήμης και Τεχνολογίας Υλικών, Τμήμα Χημείας), Πατρών (Τμήμα Επιστήμης Υλικών), Κρήτης (Τμήμα Επιστήμης και Τεχνολογίας Υλικών), Αθηνών (Τμήμα Φυσικής)
- Μέλος εξεταστικής επιτροπής διδακτορικών διατριβών (Πανεπιστήμια: Mainz, Leipzig, Valencia, Umea (Σουηδία), Ιωαννίνων, Πατρών, Ε.Κ.Π.Α.)
- Μέλος επιστημονικής συμβουλευτικής επιτροπής του μεταπτυχιακού προγράμματος «Επιστήμη Πολυμερών και Εφαρμογές της» (Ε.Κ.Π.Α.)
- Μέλος επιτροπής κτιρίων και ασφάλειας ΙΤΕ (1998-2000)
- Συντονιστής επιτροπής καταγραφής περιουσιακών στοιχείων του ΙΤΕ (1997-2000)

### **ΔΙΟΡΓΑΝΩΣΗ ΣΥΝΕΔΡΙΩΝ**

- Μέλος του International Advisory Board των συνεδρίων: *Polymer Blends*: San Sebastian (2012), Dresden (2010), *Broadband Dielectric Spectroscopy*: Wisla (2014), Leipzig (2012), Madrid (2010), Lyon (2008), Poznan (2006), Delft (2004), Leipzig (2002), GraphEL(2012), 12th European Conference on Liquid Crystals, Rhodes (2013) (Member of Organizing Committee).
- 7<sup>ο</sup> Πανελλήνιο Συνέδριο Πολυμερών, Ιωάννινα 2008 (Διοργανωτής-Πρόεδρος Οργανωτικής Επιτροπής)
- 6<sup>ο</sup> Πανελλήνιο Συνέδριο Πολυμερών, Πάτρα 2006 (Οργανωτική Επιτροπή)
- 4<sup>th</sup> International Discussion Meeting on Relaxations in Complex Systems, Hersonissos, Crete, June 2001 (Διοργανωτής μαζί με τους: K.L. Ngai, A. Rizos, E. Riande)
- IUPAC International Symposium on Ionic Polymerization, Hersonissos, Crete, October 2001 (Οργανωτική Επιτροπή)
- 5<sup>ο</sup> Πανελλήνιο Συνέδριο Πολυμερών, Ηράκλειο Κρήτης, Δεκέμβριος 2001 (Οργανωτική Επιτροπή)
- 6<sup>th</sup> European Polymer Federation Symposium on Polymeric Materials, Aghia Pelagia, October 1996 (Οργανωτική Επιτροπή)
- 4<sup>th</sup> Mediterranean School and Symposium on Science and Technology of Advanced Polymer Based Materials, Fodele, June 1995 (Οργανωτική Επιτροπή)

### **ΜΕΛΟΣ ΟΡΓΑΝΙΣΜΩΝ**

- Εκλεγμένο μέλος του Διοικητικού Συμβουλίου του Διεθνούς Οργανισμού Διηλεκτρικών (International Dielectric Society - IDS)
- Εκλεγμένο μέλος του Διοικητικού Συμβουλίου της Ελληνικής Εταιρείας Πολυμερών (2006 - 2012)
- Μέλος ACS Division of Polymeric Materials: Science and Engineering (PMSE) (1998-1999)
- Μέλος της Ελληνικής Εταιρείας Πολυμερών

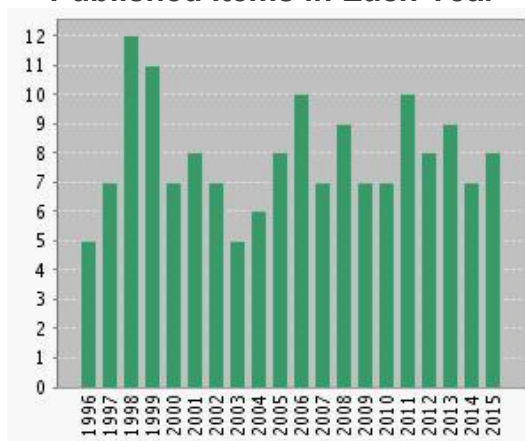
**XII. ΕΠΙΣΤΗΜΟΝΙΚΕΣ ΕΡΓΑΣΙΕΣ ΣΕ ΠΕΡΙΟΔΙΚΑ ΜΕ ΚΡΙΤΕΣ**

<b>Περιοδικό</b>	<b>Αριθμός άρθρων</b>
Macromolecules	70
Biomacromolecules	5
J. Chem. Phys.	22
J. Am. Chem. Soc.	3
Nano Letters	2
ACS Nano	2
Angewandte Chemie Int. Ed.	1
Phys. Rev. Lett.	3
Phys. Rev. B	1
Phys. Rev. E	5
Progr. in Polym. Science	1
Adv. Polym. Sci.	1
Adv. Mater.	1
ACS Applied Materials&Interfaces	3
Adv. Funct. Mater.	1
ChemPhysChem	1
Chem. Mater.	1
Chem. Commun.	1
Langmuir	1
Soft Matter	4
J. Phys. Chem. B/ J. Phys. Chem.	10
Europhysics Letters	4
Polymer	9
J. Non-Cryst. Solids	9
Acta Polymerica	1
Colloid Polym. Sci.	4
Europ. Phys. Journal E	2
ACS Series	1
Makromol. Chem	1
Macrom. Chem. Phys. (MCP)	3
Macromol. Rap. Commun. (MRC)	3
Physica B	1
J. Polym. Sci. Polymer Physics	1
IEEE Trans. Dielectrics EI	1
J. Phys. C	2
Elect. Lett.	1
Mater. Sci. For.	1
Europ. Phys. Journal, Sp. Topics	1
J. Rheology	1
Europ. Polym. J.	1
<b>Σύνολο</b>	<b>187</b>

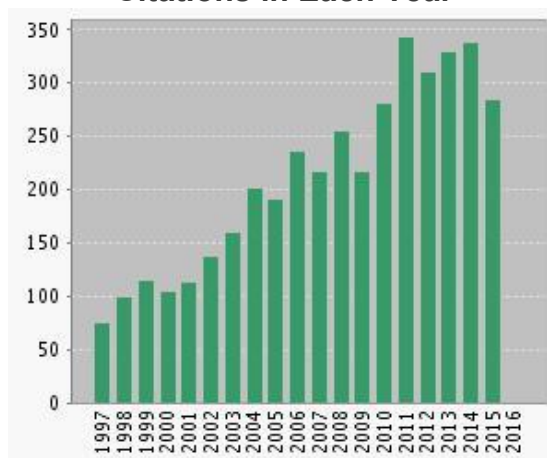
**ΑΝΑΦΟΡΕΣ ΣΤΟ ΕΡΕΥΝΗΤΙΚΟ ΕΡΓΟ;** Πηγή: Science Citation Index

AU=(floudas g\*)

DocType=All document types; Language=All languages; Databases=SCI-EXPANDED, SSCI, A&amp;HCI; Timespan=1900-2015

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## **A1. ΕΡΕΥΝΗΤΙΚΑ ΑΡΘΡΑ ΣΕ ΠΕΡΙΟΔΙΚΑ ΜΕ ΚΡΙΤΕΣ (\*corresponding author)**

### *[0] Doctoral Thesis*

Title: "Density, Concentration and Orientation Fluctuations in Dense Polymer Systems and Polymer Solutions as Studied by Dynamic Light Scattering and Complementary Techniques" University of Crete, Dept. of Physics, Heraklion 1990.

### **1985**

[1] J. Schroeder\*, **G.A. Floudas**, M.A. Stiller, M.G. Drexage; "Pockels' Elastooptic Coefficients and Brillouin Linewidths in Halide Glasses"  
**Materials Science Forum 6, 577, 1985.**

### **1987**

[2] J. Schroeder\*, L.G. Hwa, M.C. Shyong, **G.A. Floudas**, D.A. Thompson, M.G. Drexage; "Brillouin Scattering and Phonon Attenuation in Halide Glasses: Stimulated Brillouin Emission"  
**Electronics Letters 23, 1128, 1987.**

### **1988**

[3] J. Schroeder\*, V.G. Tsoukala, **G.A. Floudas**, D.A. Thompson; "Optical Studies of Glass Stability in Fluoride Glass Systems: Intrinsic Rayleigh Scattering"  
**J. Non-Cryst. Solids 102, 295, 1988.**  
[4] G. Fytas\*, **G. Floudas**, N. Hadjichristidis; "Optical Anisotropy of Linear and Star Polyisoprene by Depolarized Rayleigh Scattering"  
**Polymer Commun. 29, 322, 1988.**

### **1990**

[5] **G. Floudas**, G. Fytas\*, B. Momper, E. Saiz; "Optical Anisotropy as an Index of Polymer Microstructure in Poly(phenylmethyl siloxane) chains"  
**Macromolecules 23, 498, 1990.**  
[6] G. Fytas\*, **G. Floudas**, K.L. Ngai; "Density and Concentration Fluctuations in Plasticized Poly(cyclohexyl methacrylate)"  
**Macromolecules 23, 1104, 1990.**  
[7] **G. Floudas**, A. Lappas, G. Fytas\*, G. Meier; "Optical Anisotropy and Orientational Dynamics of Polycarbonate Dilute Solutions"  
**Macromolecules 23, 1747, 1990.**  
[8] **G. Floudas**, A. Patkowski, G. Fytas\*, M. Ballauff; "Optical Anisotropies of Nematogens from the Depolarized Rayleigh Spectra"  
**J. Phys. Chem. 94, 3215, 1990.**  
[9] G. Fytas\*, J. Kanetakis, **G. Floudas**, C.H. Wang; "Hypersonic Dispersion in Compatible Poly(ethylene oxide)/Poly(methyl methacrylate) Mixtures"  
**Polymer Commun. 31, 434, 1990.**  
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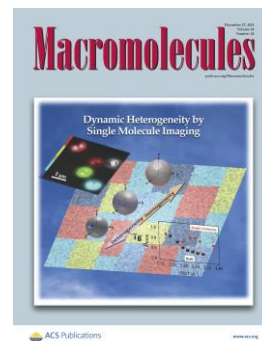
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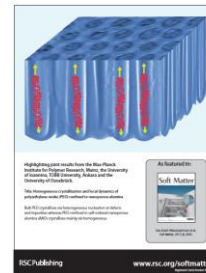
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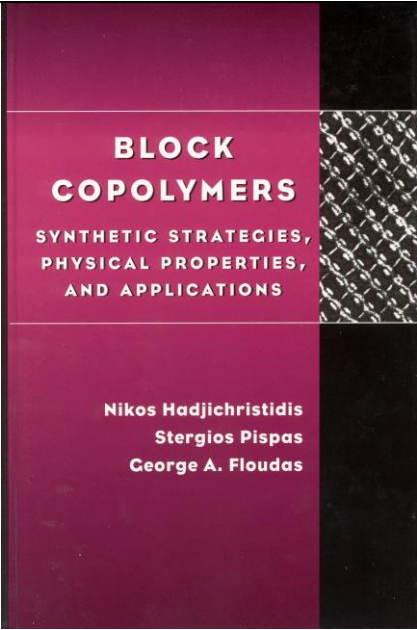
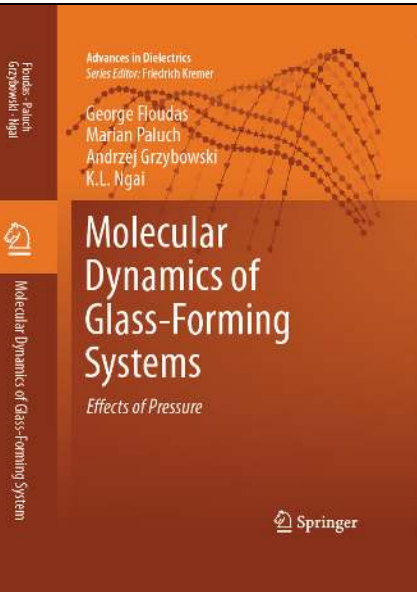
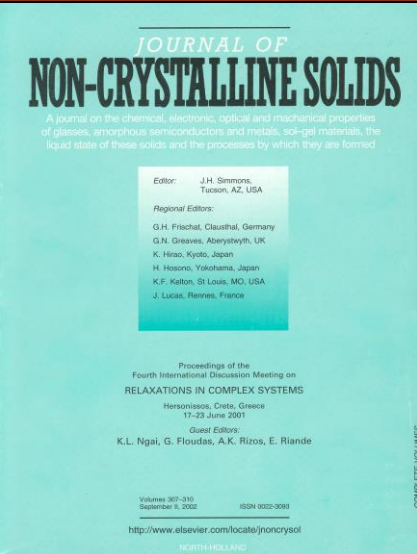
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## **Γ. ΑΡΘΡΑ ΣΕ ΣΥΝΕΔΡΙΑ (ACS POLYMER PREPRINTS /PROCEEDINGS)**

[1] "Dynamics of a Polymer/Diluent System as Studied by Dielectric Spectroscopy and Neutron Scattering"

G. Floudas, J.S. Higgins, F. Kremer, *Polymer Preprints*, 33(1),130,1992.

[2] "Ordering Kinetics in Symmetric Diblock Copolymers"

G. Floudas, T. Pakula, E.W. Fischer, N. Hadjichristidis, *Polymer Preprints* 35(1),559,1994.

[3] "Microphase Separation in Model Block Copolymers studied by Rheology"

G. Floudas, N. Hadjichristidis, T. Pakula *Proc. XIIth Int. Congr. on Rheology*, p.138,1996.

[4] "Equilibrium Order-to-Disorder Transition Temperature in Block Copolymers"

G. Floudas, G. Velis, S. Sioula, N. Hadjichristidis, *PMSE Polymer Preprints*, 79, 29, 1998.

[5] "Structure and Dynamics of Structure Formation in Model Miktoarm Star Copolymers Composed of two Crystallizable Blocks"

G. Floudas, G. Reiter, O. Lambert, P. Dumas, B. Chu, *PMSE Polymer Preprints*, 79,375,1998.

[6] "Comparison of Ultrasonic and Conventional Rheology During Crystallization and Melting of poly(ethylene oxide) and a Triblock Copolymer with Polystyrene"

I. Alig, S. Tadjbakhsch, G. Floudas, *Polymer Preprints*, 1998.

[7] «Order-to-order Transitions in Poly(isoprene-ethylene oxide) Diblock Copolymers»

G. Floudas, R. Ulrich, U. Wiesner, B. Chu *Polymer Preprints*, 1999

- [8] "Functionalized Block Copolymers: Synthesis, Structure and Dynamics"  
G. Floudas, S. Pispas, N. Hadjichristidis Polymer Preprints, 1999.
- [9] "Effect of Pressure on the Side-Chain Crystallization of Poly(n-octadecyl methacrylate) studied by Dielectric Spectroscopy "  
M. Mierzwa, G. Floudas, G. Wegner, Dielectrics Newsletters (Issue June 2000).
- [10] "Hierarchical self-assembly of block copolymers based on peptides"  
G. Floudas, P. Papadopoulos, I. Schnell, H.-A. Klok, T. Aliferis, H. Iatrou, N. Hadjichristidis Proceedings, Macro2004 (Paris), 2004
- [11] "Temperature and pressure effects on the dynamics of polymer blends"  
K. Mpoukouvalas, G. Floudas, S. Zhang, J. Runt, F. Du Prez  
PMSE Polymer Preprints (2005).
- [12] «Glass transition in Peptides. Temperature and Pressure effects »  
P. Papadopoulos, G. Floudas, I. Schnell, H.-A. Klok, T. Aliferis, H. Iatrou, N. Hadjichristidis  
PMSE Polymer Preprints (2005).
- [13] "Polypeptide dynamics: Glass transition and broken helices"  
P. Papadopoulos, G. Floudas in Dielectric Newsletters, Issue Sept. 2005.
- [14] "Solvent-free nanofluids"  
Giannelis, EP, Bourlinos, A, Herrera, R., Rodriguez, R., Archer, LA, Floudas, GA, Fytas, G.  
231:475-PMSE March 26 (2006).
- [15] «Effect of pressure on the dynamic heterogeneity of compatible polymer blends»  
G. Floudas, K. Mpoukouvalas, A. Gitsas  
PMSE Polymer Preprints (2007).
- [16] «Self-assembly and dynamics of peptide-functionalized polyphenylene dendrimers»  
G. Floudas, A. Gitsas, M. Mondeshki, H.W. Spiess, K. Muellen  
Polymer Preprints (2007).

### **XIII. ΠΑΡΟΥΣΙΑΣΕΙΣ ΣΕ ΣΥΝΕΔΡΙΑ**

- [1] "Pockels' Elastooptic Coefficients and Brillouin Scattering in Halide Glasses"  
*3rd International Symposium on Halide Glasses, Rennes, France (1985).*
- [2] "Brillouin Scattering and Phonon Attenuation in Halide Glasses"  
*APS Meeting, Las Vegas (1986).*
- [3] "Rayleigh-Brillouin Scattering in Halide Glasses"  
*Hellenic Symposium on Solid State Physics, Ioannina, Greece (1986) (Oral presentation).*
- [4] "Depolarized Rayleigh Scattering and Optical Anisotropy of some Liquid Crystals"  
*Conference on Laser and Applications, Ioannina, Greece (1987) (Oral presentation).*
- [5] "Brillouin Scattering and Phonon Attenuation in Halide and Oxide Glasses"  
*APS Meeting, New York (1987).*
- [6] a."Brillouin Scattering and Phonon Attenuation in Halide Glasses"  
b."Intrinsic Rayleigh Scattering in Fluoride Glasses"  
*The American Ceramic Society Meeting, Pittsburgh PA (1987).*
- [7] "Optical Studies of the Glass Stability in Fluoride Glass Systems"  
*The 9th University Conference on Glass Science, RPI, Troy, New York (1987).*
- [8] "Optical Anisotropy of Nematogens from the Depolarized Rayleigh Spectra"  
*1st Hellenic Conference on Polymers, Athens, Greece (1987) (Oral presentation).*
- [9] "Optical Anisotropy of Flexible Polymers by Depolarized Rayleigh Scattering"  
*Greek-Italian International Conference on New Lasers, Olympia, Greece (1988) (Oral presentation).*
- [10] "Optical Anisotropy of Macromolecular Systems by Depolarized Rayleigh Scattering"  
*Advanced Studies Institute, Nafplion, Greece (1988) (Oral presentation).*
- [11] "Investigation of the Molecular Dynamics of Polymers with Dynamic Light Scattering"  
*Conference on Lasers and Applications, Athens, Greece (1989) (Oral Presentation).*
- [12] a."Dynamic Light Scattering Studies in Plasticized Poly(cyclohexyl methacrylate) Below and Above T<sub>g</sub>" (Oral presentation)  
b."Solvent Mobility in Polystyrene/Aroclor Solutions. A Depolarized Rayleigh Scattering Study"  
*2nd International Workshop on Non-Crystalline Solids, San Sebastian, Spain (1989).*
- [13] "The Effect of Additives on Polymer Dynamics Studied by Dynamic Light Scattering, Dielectric and Mechanical Relaxation"  
*Conference on Lasers and Applications, Heraklion, Greece (1990).*
- [14] a."Relaxation Processes in Poly(cyclohexyl methacrylate)/Additive Systems"  
b."Distribution of Relaxation Times vs Single Relaxation Time in Bulk Polybutadiene"  
c."Solvent Mobility in Polystyrene/Aroclor and Polybutadiene/Aroclor Solutions"

*Meeting on Relaxations in Complex Systems, Heraklion, Greece (1990).*

[15] "Solvent Mobility in Polystyrene/Aroclor and Polybutadiene/Aroclor Solutions Studied by Dynamic Light Scattering"  
*1st Liquid Matter Conference, Lyon, France (1990) (Oral presentation).*

[16] "Molecular Motions in Glassy Polymers"  
*Hellenic Symposium on Solid State Physics, Heraklion, Greece (1990).*

[17] "Dynamic Light Scattering from Polymer/Additive Mixtures"  
*Macro Group UK Meeting, Lancaster, England (1991).*

[18] "Diluent Relaxation in PMMA/Toluene Mixtures Studied by Dynamic Light Scattering"  
*European Macromolecular Club Meeting, Uppsala, Sweden (1991) (Invited Speaker).*

[19] "Local Motions in Glassy PMMA, SCPE and PMMA/SCPE Blends. A Quasielastic Neutron Scattering Study"  
*Conference on Physical Aspects of Polymer Science, Leeds, England (1991).*

[20] a."Local and Cooperative Motions in a Polymer/Additive Mixture. A Neutron Scattering Study"  
b."Orientational Dynamics in Polystyrene/DOP Systems"  
c."Solvent Dynamics in PMMA/Toluene Solutions A Dynamic Light Scattering Study" (Oral presentation)  
d."Structural Relaxation in Poly(methylphenyl Siloxane)"  
*27th Europhysics Conference on Macromolecular Physics, Crete, Greece (1991).*

[21] "Dynamics of Concentrated Solutions of SCPE with DOP as Studied by Neutron Scattering and Dielectric Relaxation"  
*Conference on Polymer Blends and Mixtures, The Institute of Physics, London, England (1991).*

[22] "Local Dynamics in the Phase Separated Blend Solution Chlorinated Polyethylene/Poly(methyl methacrylate)".  
*Conference on Quasielastic Neutron Scattering, Windsor, England (1992).*

[23] "Dynamics of a Polymer/Diluent System as Studied by Dielectric Relaxation and Neutron Scattering"  
*ACS Meeting, San Francisco (1992).*

[24] a."Dynamics of Bisphenol-A-Polycarbonate"  
b."Dynamics of a Polymer/Diluent System as Studied by Neutron Scattering and Dielectric Spectroscopy"  
*4th European Polymer Federation Symposium on Polymeric Materials, Baden-Baden, Germany (1992).*

[25] "Solvent and Polymer Dynamics in Concentrated Polystyrene/Toluene Solutions"  
*Static and Dynamic Light Scattering Techniques and Applications to Dense Colloids, Burg auf Fehmarn, Germany (1993) (Invited Speaker).*

[26] "Density Fluctuations in Amorphous Polymers as Studied by SAXS"

*13th General Conference of the Condensed Matter Division, European Physical Society, Regensburg, Germany (1993).*

[27] a. "Density and Concentration Fluctuations in Amorphous Polymers as Studied by X-ray Diffraction" (**Invited Speaker**)  
 b. "Solvent and Polymer Dynamics in Concentrated Polymer Solutions"  
 c. "Local Dynamics in Polymers. Effects of Blending and of Additives"  
 d. "Inelastic and Quasielastic Light Scattering from Poly(n-hexylmethacrylate)"  
 e. "Density and Concentration Fluctuations in Solutions of Poly(methylmethacrylate)/Bis(2-ethylhexyl Phthalate)"  
*2nd International Discussion Meeting on Relaxations in Complex Systems, Alicante, Spain (1993).*

[28] "Effect of Blending on Polymer Chain Dynamics"  
*QENS'93, San Sebastian, Spain (1993) (Oral presentation)*

[29] "Ordering Kinetics in Block Copolymers"  
*ACS Meeting, San Diego (1994) (Oral presentation).*

[30] "Microphase Separation in Model 3-arm Star Block Copolymers and Terpolymers"  
*Molecular Mobility and Order in Polymer Systems, St. Petersburg, Russia (1994)*  
 (Oral presentation).

[31] "Statics and Dynamics of  $\omega$ -Functionalized Block Copolymers of Styrene and Isoprene"  
*Nano-Structures and Self-assemblies in Polymer Systems, St. Petersburg -Moscow, Russia (1995) (Oral presentation).*

[32] a. "Microphase Separation in Model Block Copolymers"  
 b. "Self-Assembly in End-Functionalized Block Copolymers"  
*Fourth Mediterranean School of Science and Technology of Advanced Polymer Based Materials, Fodele, Crete (1995).*

[33] "End-Functionalized Block Copolymers"  
*Gordon Research Conference, Colby-Sawer College, New London NH, U.S.A. (1995).*

[34] "Self-Assembly of End-Functionalized Diblock Copolymers in Solution"  
*Advanced Studies Institute, Turkey (1995).*

[35] "Block Relaxation in Disordered and Ordered Diblock Copolymers"  
*3rd Patras Euroconference on Complex Materials, Patras (1995).*

[36] "Local and Global Dynamics in Model Graft and Star Block Copolymers"  
*Workshop on non equilibrium Phenomena in Supercooled Fluids, Glasses and Amorphous Materials, Pisa, Italy (1995).*

[37] "Self-Assembly of End-Functionalized Block Copolymers"  
*69th ACS Meeting, Salt Lake City, U.S.A. (1995).*

[38] a. "Microphase Separation in Non-Linear Block Copolymers" (Oral presentation).  
 b. "Dynamics of Model Star Block Copolymers"

*Theoretical Challenges in the Dynamics of Complex Fluids*, Newton Institute, Cambridge UK (1996).

[39] a. "Order-disorder Transition and Ordering Kinetics in Model Block Copolymers" (Oral presentation).

b. "Microphase Separation in Block Copolymers. Dynamics"

c. "Solution and Solid State Properties of Linear Block Copolymers with Zwitterionic End Groups"

*Greek-French Polymer Workshop*, Heraklion (1996).

[40] "Order-Disorder Transition in Non-linear Block Copolymers and Block Copolymer Blends"

*Advanced Research Workshop*, Il Ciocco, Italy (1996)

[41] "Microphase Separation in Model Block Copolymers studied by Rheology" (Oral Presentation)

*XIIth Int. Congr. on Rheology*, Quebec City, Canada (1996)

[42] "Self-assembly in Non-Linear Block Copolymers" (Oral Presentation)

*XIIth Hellenic Symposium in Solid State Physics*, Heraklion (1996)

[43] a. "Microphase Separation in Block Copolymer/Homopolymer Blends. Theory and Experiment"

b. "Microphase Separation in Model Non-Linear Block Copolymers. Statics, Kinetics and Dynamics"

c. "Crystallization Kinetics of Poly(ethylene oxide) in Poly(ethylene oxide)-Polystyrene-Poly(ethylene oxide) Triblock Copolymers"

*European Polymer Federation Symposium on Polymeric Materials*, Aghia Pelaghia, Crete (1996).

[44] "Order-Disorder Transition in Star Block Copolymers"

*Rheology/Chain Structure Relationships in Polymers*, Cambridge, UK (1996) (**Invited Speaker**)

[45] a. "Microphase Separation in Model Block Copolymers" (Oral Presentation)

b. "Junction Point Fluctuations in Microphase Separated Polystyrene-Polyisoprene-Polystyrene Triblock Copolymers"

*Deutsche Physikalische Gesellschaft*, Munster, Germany (1997).

[46] "Self-Assembly in Block Copolymers. Phase State and Dynamics"

*1st Hellenic Symposium of Chemical Engineering*, Patras (1997) (Oral Presentation)

[47] "Microphase Separation in Non-Linear Block Copolymers"

*8th Meeting of the European Macromolecular Club*, University of Leiden, The Netherlands (1997) (**Invited Speaker**).

[48] a. "Dynamics of Block Copolymers Confined in Microstructures" (**Invited Speaker**)

b. "Global Dynamics of Polyisoprene Confined in Porous Media. A Dielectric Spectroscopy Study"

c. "Dynamic Probe of the Interface in Lamellar Forming Non-Linear Block Copolymers of the type  $(BA)_3B$  and  $(BA)_3B(AB)_3$ , using Dielectric Spectroscopy"

d. "Dynamics of Linear and Cross-Linked Poly(propylene oxide) studied with Dielectric Spectroscopy and Rheology"  
*3rd International Discussion Meeting on Relaxations in Complex Systems, Vigo, Spain (1997).*

[49] "Equilibrium Order-to-Disorder Transition in Model Block Copolymers" (**Invited Speaker**)  
*International Workshop on the Structure and Dynamics of Complex Fluids under Shear Flow, Mainz, Germany (1997).*

[50] "Dynamic Probe of the Interface in Block Copolymers. A Dielectric Spectroscopy Study"  
*4th International Symp. on Polymers for Advanced Technologies (PAT-97), Leipzig, Germany (1997).*

[51] "Rheology of the Miscible Polymer Blends Polystyrene/poly(vinyl methyl ether) and poly(methyl methacrylate)/poly(styrene-co-acrylonitrile)"  
*69th Annual Meeting of the Society of Rheology, Columbus Ohio, USA (1997).*

[52] "Dynamics of Structure Formation in Linear and Star Block Copolymers Composed of Semicrystalline Blocks in Confined Space" (Oral Presentation)  
*4th Hellenic Polymer Symposium, Patras (1997).*

[53] "Comparison of Ultrasonic and Conventional Rheology during Crystallization and Melting in bulk PEO and in the Triblock PEO-PS-PEO"  
*Deutsche Physikalische Gesellschaft, Bayreuth, Germany (1998).*

[54] "Equilibrium Order-to-Disorder Transition Temperature in Block Copolymers" (Oral Presentation)  
*191. WE-Heraeus Seminar on Structured Polymer Systems: Self-Assemblies, Heteropolymers and Networks, Bad- Honnef, Germany (1998).*

[55] "Dynamics of Structure Formation in Miktoarm Star Copolymers Composed of Two Crystallizable Blocks"  
*Gordon Research Conference, Polymer Physics, Salve Regina University, Newport, RI (1998).*

[56] a. "Equilibrium Order-to-Disorder Transition Temperature in Block Copolymers" (Oral Presentation)  
 b. "Structure and Dynamics of Structure Formation in Model Miktoarm Star Copolymers Composed of two Crystallizable Blocks" (Oral Presentation)  
 c. "Comparison of Ultrasonic and Conventional Rheology During Crystallization and Melting of Poly(ethylene oxide) and a Triblock Copolymer with Polystyrene: Viscoelastic Contrast and Kinetic Frustration"  
*216<sup>th</sup> ACS Meeting, Boston (1998).*

[57] "Microphase Separation in Poly(isoprene-b-ethylene oxide) Diblock Copolymer. Phase State and Dynamics of Order-to-Order Transitions" (Oral Presentation)  
*2<sup>nd</sup> Hellenic Society of Rheology Meeting, Heraklion (1998).*

[58] "Relation of Segmental and Terminal Chain Dynamics in Miscible Polymer Blends"



*Centennial APS March Meeting, Atlanta, USA (1999).*

[59] "Dynamics of Order-to-Order Transitions in Block Copolymers" (Oral Presentation)  
*Europhysics Conference, Eurorheo 99-1, Sophia-Antipolis (1999).*

[60] "Segmental and Chain Dynamics of Polyisoprene in Homopolymer/Block Copolymer Blends" (Oral Presentation)  
*Sixth European Symposium on Polymer Blends, Mainz, Germany (1999).*

[61] "Transformation Dynamics between the Microphases in Block Copolymers" (Oral Presentation)  
*2<sup>nd</sup> Hellenic Symposium of Chem. Eng., Thessaloniki (1999)*

[62] "Phase Transformation Dynamics in Block Copolymer" (**Invited Speaker**)  
*Gordon Research Conference on Elastomers, Networks and Gels, New London, NH, USA (1999)*

[63] a. "Order-to-order Transitions in Poly(isoprene-ethylene oxide) Diblock Copolymers» (Oral presentation)  
b. "Functionalized Block Copolymers: Synthesis, Structure and Dynamics" (Oral presentation)  
*217<sup>th</sup> ACS Meeting, New Orleans (1999)*

[64] "Dynamics of model miscible polyolefin blends"  
*The Society of Rheology, 71<sup>st</sup> Annual Meeting, Madison, Wisconsin (1999)*

[65] "Phase State and Gas Permeation in Polysulfone/Polyimide Blends"  
*Euro- Membrane, Leuven, Belgium (1999)*

[66] "Component Dynamics in Miscible Polymer Blends"  
*Advanced Studies Institute on Structure and Dynamics of Polymer and Colloidal Systems, Les Houches, France (1999).*

[67] a. "Effect of Pressure on Homopolymer Dynamics and Blend Compatibility" (**Invited Speaker**) (**Plenary Lecture**)  
b. "Effect of Pressure on the Side-Chain Crystallization of poly(n-octadecyl methacrylate) studied by Dielectric Spectroscopy"  
*Dielectric and Related Phenomena, Lodz, Poland (2000).*

[68] "Effect of Pressure on Polymer Crystallization Studied by Dielectric Spectroscopy"  
*XVI Symposium on Solid State Physics, Nafplion (2000)*

[69] "Block Copolymer Structure and Dynamics" (Oral Presentation)  
*Workshop for Greek-German Joint Research and Technology Programs focused on Materials Research, FORTH, (2000).*

[70] "Shear Induced Crystallization in Poly( $\epsilon$ -caprolactone): Effect of Shear Rate" (Oral Presentation)  
*Deutsche Physikalische Gesellschaft (DPG) (2000)*

[71] a. "Effect of Pressure on Polymer Dynamics" (Oral Presentation)

b. "Effect of pressure on the Dynamics of Side-Chain Liquid Crystalline Polymers"  
*1<sup>st</sup> International Conference on Dielectric Spectroscopy, DS2001, Jerusalem (2001).*

[72] "Dielectric and Solid State NMR Investigation of the Molecular Dynamics in Poly(p-phenylenes) with Oxyethylene Side Chains"  
*Naurod MPI-P Seminar (2001).*

[73] a. "Effect of Pressure on the Segmental and Chain Dynamics of Homopolymers and the Dynamic Heterogeneity in Compatible Polymer Blends" (Oral Presentation)  
 b. "Effect of Pressure on the Polymer Crystallization"  
 c. "Local and Chain Dynamics of Polylactides. A Dielectric Spectroscopy Investigation"  
 d. "Dynamics of Side-Chain Liquid Crystalline Polymers. A T- and P-dependent Dielectric Spectroscopy Study"  
*4<sup>th</sup> International Discussion Meeting on Relaxations in Complex Systems, Hersonissos, Crete, (2001).*

[74] "Polyethylene Oxide Crystallization in Poly(isoprene-ethylene oxide) Diblock Copolymers"  
*European Conference on Macromolecular Physics - Morphology and Properties of Crystalline Polymers, Eger, Hungary (2001).*

[75] a. "Phase State and Kinetics of Phase Transformation in Poly(ethylene oxide-isoprene) Diblock Copolymers" (Oral Presentation)  
 b. "Crystallization Kinetics of a Diblock Copolymer Crystallizing from Different Ordered Mesophases"  
*IUPAC International Symposium on Ionic Polym., Hersonissos, Crete (2001).*

[76] "Phase Behavior and Kinetics of Phase Transformation in poly(ethylene oxide-b-isoprene) Copolymers" (**Invited Speaker**)  
*Stony Brook Symposium in Complex Materials, Stony Brook (2001) (Symposium in honour of Prof. B. Chu on his 70<sup>th</sup> birthday)*

[77] a. "Phase State of Poly(butadiene-b-t-butyl methacrylate) (BBMA) and poly(ethylene-t-butyl methacrylate) (EBMA) and Confined Crystallization in a Soft Polymer Matrix" (Oral Presentation).  
 b. "Constrained Dynamics in Supramolecular Structures of Poly(p-phenylenes) with ethylene oxide Side Chains. A Combined Dielectric and NMR Investigation" (Oral Presentation)  
 c. "Stress-Induced  $\beta$ - to  $\alpha$ - in iPP transformation"  
*Fifth Greek Polymer Symposium (ELEP), Crete, 2001.*

[78] a. "Constrained Dynamics in Supramolecular Structures. A Combined Dielectric and NMR Investigation" (**Invited Speaker- Plenary Lecture**)  
 b. "Effect of Pressure on the Dynamics of a side-chain Liquid Crystalline Polymer. A Dielectric Spectroscopy Investigation" (Oral Presentation, M. Mierzwa)  
*2<sup>nd</sup> International Conference on Broadband Dielectric Spectroscopy and its Applications, Leipzig (2002)*

[79] a. "Self-assembly of rod-coil-rod copolymers based on Peptides"  
 (Oral Presentation)  
 b. "Structure and Dynamics of Rigid-rod Polymers with High orientational Order"

*XVII Solid State Physics Symposium, Heraklion, Crete (2002)*

[80] "Structure and Dynamics of Rigid-Rod Polymers"  
*5<sup>th</sup> Conference on Basic and Applied Chemical Research, Ioannina (2002) (A. Gitsas).*

[81] "Self-assembly and dynamics of Poly( $\gamma$ -benzyl-L-glutamate) (PBLG) peptides"  
*Workshop on "Nonlinear Dielectric Phenomena", Ustron, Poland (2003) (Invited Speaker)*

[82] a. (poster by P. Papadopoulos)  
 b. {poster by K. Mpoukouvalas)  
*EPF 2<sup>nd</sup> Summer-school on Nanostructured Polymer Materials Gargano, Italy (2003)*

[83] "Self-assembly and dynamics in oligopeptides"  
*Supernet Conference, Spa, Belgium (2003) (Invited Speaker)*

[84] a. "Structure and dynamics of bulk PBLG peptides and in the triblock copolymers PBLG-PEO-PBLG" (P. Papadopoulos)  
 b. "Phase diagram of poly(methyl-p-tolyl siloxane)" (K. Mpoukouvalas)  
 c. "Structure and dynamics of Nylon 6 in the presence of clay" (E. Ioannou) (Oral presentation)  
 d. "Morphology and mobility in rigid rod polymers" (A. Gitsas) (Oral presentation)  
*XIX Hellenic Solid State Physics and Materials Science Conference, Thessalokini (2003).*

[85] a. "Effects of temperature and pressure on the dynamics of hydrogen-bonded polymer blends" (K. Mpoukouvalas)  
 b. "Self-assembly and dynamics of Poly( $\gamma$ -benzyl-L-glutamate) peptides" (P. Papadopoulos)  
*International Workshop on Dynamics in Viscous Liquids, Munchen (2004).*

[86] "Effect of pressure on the dynamics of systems with high intrinsic orientational order"  
*Supernet Meeting on Multiscale Phenomena in Material Structure Formation Bled, Slovenia (2004) (Invited Speaker)*

[87] Hierarchical self-assembly of block copolymers based on peptides (Oral presentation),  
*Macro 2004, Paris (2004).*

[88] "Structure and dynamics of poly( $\gamma$ -benzyl-L-glutamate)-b-polyglycine block copolymers" *Faraday Discussion #128 on Self-Organizing Polymers, Leeds (2004) (P. Papadopoulos).*

[89] "Effect of pressure on the dynamics of miscible polymer blends/copolymers" (Oral presentation)  
*3rd International conference on Broadband Dielectric Spectroscopy and its Applications, Delft, The Netherlands (2004).*

[90] a. "Effects of temperature and pressure on the structure and dynamics of polymer blends" (Oral presentation)

b. "Structure and dynamics of PBLG-PG copolymers (P. Papadopoulos)  
*XX Hellenic Solid State Physics and Materials Science Conference , Ioannina (2004).*

[91] "Self assembly and dynamics of block copolymers based on poly( $\gamma$ -benzyl-L-glutamate) peptides"  
*Turkish-Greek-German Symposium on Polymers in Material Science and Biology, Istanbul (2004) (Invited Speaker)*

[92] "Biopolymers under pressure"  
*Workshop on Soft Matter, Odessa, Ukraine (2005).*  
**(Invited Speaker)**

[93] a. "Temperature and pressure effects on the dynamics of polymer blends" **(Invited Speaker)**  
b. "Glass transition in peptides. Temperature and pressure effects" (Oral presentation)  
*ACS 229 National Meeting, San Diego CA (2005)*

[94] "Effects of pressure on blend/copolymer dynamics"  
*Workshop on dynamics of polymer blends, San Sebastian, Spain (2005)*  
**(Invited Speaker)**

[95] a. "Effects of pressure on homopolymer and blend dynamics" **(Invited Speaker)**  
b. "Glass transition in peptides" (Oral presentation, P. Papadopoulos).  
*5<sup>th</sup> International Discussion Meeting on Relaxations in Complex Systems, Lille, France (2005).*

[96] "Effect of confinement on the polymer segmental motion and on ion mobility in PEO/layered-silicate nanocomposites"  
*APS March Meeting, Baltimore (2006).*

[97] a. "Hierarchical self-assembly and dynamics in polypeptides" (Oral presentation)  
b. "Structure and dynamics in polymer/layered silicates"  
*3rd Workshop on Nanosciences & Nanotechnologies (NN06), Thessaloniki (2006).*

[98] a. "Origin of glass transition in polypeptides" (Oral presentation)  
b. "Thermodynamics and rheology of cycloolefin copolymers"  
*4<sup>th</sup> IDS and 9<sup>th</sup> International Conference on Dielectric and Related Phenomena, Poznan, Poland (2006).*

[99] a. "Effects of monomer volume and local packing on the glass-transition dynamics of glass-formers" (Oral presentation).  
b. "Glass transition in polypeptides" (Oral presentation).  
*IV Workshop on Non-equilibrium Phenomena in Supercooled fluids, Glasses and Amorphous Materials, Pisa, Italy (2006).*

[100]. a. "Influence of pressure on the nanophase separation and dynamics of pODMA-b-ptBA-pODMA triblock copolymer" (Oral presentation, A. Gitsas)  
b. "Influence of pressure on the dynamic heterogeneity of compatible polymer blends" (Oral presentation, K. Mpoukouvalas)  
c.  
d.

*XXII Hellenic Solid State Physics and Materials Science Conference, Patras (2006).*

- [101] a. "Thermodynamics and Rheology of Cycloolefin Copolymers" (**Invited Speaker**)  
 b. "Effect of pressure on the dynamic heterogeneity of the compatible blend PMMA/PEO" (Oral presentation, K. Mpoukouvalas)  
 c. "Self-assembly and molecular dynamics of oligoindenofluorenes" (M. Elmahdy)  
 d. "Effect of confinement on polymer segmental motion and ion mobility in PEO/layered-silicate nanocomposites" (M. Elmahdy)  
 e. "The role of temperature and density on the glass-transition dynamics of glass-formers" (K. Mpoukouvalas)  
 f. "Role of main chain rigidity and side chain substitution on the supramolecular organization and dynamics of rigid-flexible polymers" (A. Gitsas)  
 g. "Effect of pressure on the confinement and crystallization in pODMA-b-ptBA-b-pODMA triblock copolymers" (A. Gitsas)  
 h. "Structure and dynamics of lithium neutralized ionic block copolymers" (E. Ioannou)  
 i. "Structure and dynamics of poly( $\gamma$ -benzyl-L-glutamate)-b-polyglycine diblock copolymers" (P. Papadopoulos)  
*6<sup>th</sup> Hellenic Conference on Polymers, Patras (2006)*

[102] "Polypeptide self-assembly and dynamics" (**Invited Speaker**)  
*European Polymer Congress, Portoroz, Slovenia (2007)*

[103] "Polypeptide dynamics" (**Invited Speaker**)  
*Meeting the Challenges of the 21<sup>st</sup> Century & Novel applications of Broadband Dielectric Spectroscopy, Suzdal, Russia (2007).*

[104] a. "Effect of pressure on the dynamic heterogeneity of compatible polymer blends" (Oral presentation)  
 b. "Self-assembly and dynamics of peptide-functionalized polyphenylene dendrimers" (Oral Presentation)  
*ACS 234<sup>th</sup> National Meeting, Boston MA (2007).*

[105] "Dynamics of PBLG polypeptide nanorods embedded into alumina templates" (Oral presentation Dr. H. Duran)  
*E-MRS Fall Meeting, Warsaw, Poland (2007).*

[106] a. "Self-assembly and molecular dynamics in polypeptide functionalized dendrimers" (Oral presentation, A. Gitsas)  
 b. "Structure and dynamics of branched hexaalkyl and functionalized hexa-peri-hexabenzocoronenes" (M. Elmahdy)  
 c. "Structure and dynamics in copolymers of  $\gamma$ -methyl-L-glutamate and  $\gamma$ -stearyl-L-glutamate" (A. Gitsas)  
 d. "Chain architecture effects on the self-organization and dynamics of star shaped copolymers" (A. Gitsas)  
*XXIII Hellenic Solid State Physics and Materials Science Conference, Athens (2007).*

[107] "Glass transition in discotic liquid crystals- Effects of pressure" (**Invited Speaker**)  
 ESF Exploratory Workshop (EWOG-087) "Glassy Liquids under Pressure: Fundamentals and Applications, Ustron, Poland (2007).

[108] "Discotic Liquid Crystals: Self-assembly, dynamics and kinetics of phase transformations" (**Invited Speaker**)  
*5<sup>th</sup> International Conference on Broadband Dielectric Spectroscopy and its Applications*, Lyon, France (2008)

[109] a. "Effect of Lithium Salt Concentration on the self-assembly of PEO-based block copolymer electrolytes" (E. Ioannou)  
 b. "Self-assembly and dynamics of PBLG embedded into nanoporous alumina templates" (A. Gitsas)  
 c. "Self-assembly and dynamics of discotic liquid crystals"  
 d. "Effect of architecture on the self-assembly and dynamics of model copolypeptides (A. Gitsas)  
*7<sup>th</sup> Hellenic Polymer Conference*, Ioannina (2008).

[110] "Effect of Salt Concentration on the self-assembly of PEO-based block copolymer electrolytes" (E. Ioannou)  
*Hybrid Materials*, Tours, France (2009).

[111] a. "Dynamics of glass-forming systems under pressure" (**Invited Speaker**)  
 b. "Self-assembly and dynamics of synthetic polymers and polypeptides by NMR spectroscopy" (Talk by Prof. H.W. Spiess)  
 c. "Fluorescence correlation spectroscopy study of molecular probe diffusion in polymer melts" (Talk by Dr. K. Koynov)  
 d. "Dielectric spectroscopy of the dynamics in natural rubber-cellulose nanocomposites" (Talk by Prof. Diaz-Calleja)  
*6<sup>th</sup> International Discussion Meeting on Relaxations in Complex Systems*, Rome, Italy (2009).

[112] "Rheology of polymer dispersed liquid crystals" (Talk by M. Roth)  
*DFG, Regensburg (2010)*.

[113] "Effects of pressure on the dynamic heterogeneity in polymer blends"  
*10<sup>th</sup> European Symposium on Polymer Blends*, Dresden (2010).

[114] "Polypeptide self-assembly and dynamics" (**Invited Speaker**)  
*International Symposium on Polymer Physics PP'2010*, Ji'nan, China (2010).

[115] a. "Effect of pressure on the dynamic heterogeneity of miscible polymer blends" (**Invited Speaker**)  
 b. "Self-assembly and molecular dynamics in nanographenes"  
*6<sup>th</sup> International Conference on Broadband Dielectric Spectroscopy and its Applications*, Madrid, Spain (2010).

[116] "Polypeptide self-assembly and dynamics in block copolymers" (**Invited Speaker**).  
*8<sup>th</sup> Greek Polymer Society Symposium*, Crete (2010).

[117] "Combining structure and mechanical properties of colloidal systems"  
*DFG, Dresden (2011)* (Talk by G. Auernhammer).

[118] "Single molecule twist - New clues to polymer dynamics"  
*Polychar 19, Kathmandu, Nepal (2011)* (Talk by A. Deres).

[119] "Isotactic polypropylene confined to nanoporous alumina: from heterogeneous to homogeneous nucleation"  
*EPF, Granada* (2011) (Talk by H. Duran).

[120] "Self-assembly, dynamics and kinetics of structure formation in discotic liquid crystals of nanographenes"  
*6<sup>th</sup> HSR meeting*, June 2011, Athens.

[121] "Self-assembly, dynamics and kinetics of structure formation in discotic liquid crystals of nanographenes" (**Invited Speaker**).  
*27<sup>th</sup> Panhellenic Conference on Solid State Physics and Materials Science*, Cyprus 2011, Limassol.

[122] "Heterogeneous polymer dynamics near  $T_g$  by single molecule spectroscopy" (**Invited Speaker**)  
*Advanced Research Workshop on Broadband Dielectric Spectroscopy and its Advanced Technological Applications*, September 2011, Perpignan, France.

[123] "Soft matter under hard confinement" (**Invited Speaker**)  
*IUPAC World Polymer Congress*, June 2012, Blacksburg, Virginia, USA.

[124] "Liquid Crystals under Confinement"  
*24<sup>th</sup> International Liquid Crystal Conference*, August 19-24, Mainz, 2012.

[125] a. "Soft Matter under Hard Confinement" (**Invited Speaker**)  
 b. "Self-assembly and Dynamics of Discotic Liquid Crystals of Nanographenes" (Ch. Grigoriadis)  
 c. "Relating conductivity to morphology in Poly(ethylene oxide)/Lithium Triflate polymer electrolytes" (G. Zardalidis)  
 d. "Effects of Pressure on the Dynamics of PVAc/PEO Miscible Blends" (G. Zardalidis)  
*7<sup>th</sup> International Conference on Broadband Dielectric Spectroscopy and its Applications*, September 3-7, Leipzig (2012).

[126] a. "Discotic Liquid Crystals of Nanographenes: Self-assembly and Dynamics" (**Invited Speaker**)  
 b. "The role of Local Structure on Controlling the Conductivity in PEO/LiTf Electrolytes" (Talk by G. Zardalidis)  
 c. "Self-assembly and Dynamics of Discotic Liquid Crystals" (Ch. Grigoriadis)  
*9<sup>th</sup> Hellenic Polymer Society Conference*, CERTH, Thessaloniki, November 2012.

[127] "A combined structural and spectroscopic study of charge generation and recombination in PTB7/PCBM solar cells – the influence of solvent additive on charge formation and decay dynamics"  
*MRS Fall Meeting*, Boston, 2012 (Talk by C. Dyer-Smith).

[128] "Structure/property correlations in petylene diimide organic composites for photovoltaic applications" (Talk by P.E. Keivanidis)  
*Electmol'12 6<sup>th</sup> Meeting on molecular electronics*, Grenoble, Dec. 2012.

[129] "Structure-property correlations in blend films of perylene diimide:polymer composites for photovoltaic applications" (Talk by P. Keivanidis)  
*Hybrid and Organic Photovoltaics Conference, Seville, Spain, May 2013.*

[130] "Understanding the structure/property dependence in polymeric composites of perylene diimides for photovoltaic applications" (Talk by P. Keivanidis)  
*2<sup>nd</sup> International Congress on Advanced Materials, Zhenjiang, China 16-19 May 2013.*

[131] a. "Heterogeneous Polymer Dynamics near  $T_g$  by Single Molecule Spectroscopy" (**Invited Speaker**)

b. "Dynamic heterogeneity and phase separation kinetics in PVAc/PEO blends by local dielectric spectroscopy" (Talk by T. Corrales)

c. "Effect of Confinement on Polymer Crystallization" (Y. Suzuki, Poster)  
*7<sup>th</sup> International Discussion Meeting on Relaxations in Complex Systems, Barcelona, Spain, July 2013.*

[132] "Confined 1,4 cis Polyisoprenes within Self-Ordered Anodic Aluminum Oxide Effect on the Segmental and Global Dynamics" (Poster by S. Alexandris)  
*XXIX Panhellenic Conference on Solid-State Physics and Materials Science, 22-25 September 2013, Athens (Greece)*

[133] a. "Self-assembly and Dynamics of Discotic Liquid Crystals of Nanographenes" (Oral presentation)

b. "Self – assembly and dynamics of nanographenes containing flexible PEG chains" (Poster by G. Zardalidis)

c. "Self- assembly and dynamics of benzothiophene derivatives" (Poster by C. Grigoriadis)  
*12<sup>th</sup> European Conference on Liquid Crystals, Rhodes, 2013*

[134] "Structure-Property Correlations in Blend Films of Perylene Diimide Excimeric Solar Cells" (Talk by P.E. Keivanidis)  
*2013 MRS Fall Meeting, Boston.*

[135] "Structure-Property Correlations in Blend Films of Perylene Diimide Excimeric Solar Cells" (Talk by P.E. Keivanidis)  
*SPIE "Physical Chemistry of Interfaces and Nanomaterials XIII" Conference, San Diego.*

[136] "Soft Matter under Hard Confinement: from Heterogeneous to Homogeneous Nucleation and to the Glass Temperature" (**Invited Speaker**)  
*13<sup>th</sup> Lahnwitzseminar on Calorimetry 2014, Rostock*

[137] a. "Local composition and dynamic heterogeneity in polymer blends" (**Invited Speaker**)

b. "Effect of Confinement on Polymer Crystallization and on the Local Polymer Dynamics" (Talk by Y. Suzuki)

c. "The role of size and charge delocalization in dissociation and charge transport in solvents of low polarity" (Poster by G. Zardalidis)

d. "Dynamics of cis-1,4 Polyisoprene and 1,4 Polybutadiene confined to Nanoporous Alumina" (Poster by A. Alexandris)

e. "Dielectric properties of organic photovoltaics based on polymer:perylene diimide blends" (Poster by A. Iosifidis)



8<sup>th</sup> *International Conference on Broadband Dielectric Spectroscopy and its Applications*, September 14-19, Wisla, Poland (2014).

[138] "Dynamics of cis-1,4 Polyisoprene and 1,4 Polybutadiene confined to Nanoporous Alumina" (Poster by A. Alexandris)  
*XXIX Panhellenic Conference on Solid-State Physics and Materials Science, September 2014, Heraklion, Crete (Greece)*

[139] a. "Soft matter under hard confinement" (Oral presentation)  
b. "Pore Diameter Dependence and Segmental Dynamics of Poly(Z-L-lysine) Peptides Confined to Nanoporous Alumina" (Talk by Eyluel Tuncel)  
*2014 MRS Fall Meeting, Boston.*

[140] a. "Soft matter under hard confinement" (**Invited Speaker**)  
b. "Effect of confinement on polymer crystallization and the liquid-to-glass temperature" (Poster by Y. Suzuki)  
c. "The role of size and charge delocalization in dissociation and charge transport in solvents of low polarity" (Poster by G. Zardalidis)  
d. "Polymorphism of benzothiophene derivatives under confinement" (Poster by S. Alexandris)  
*10<sup>th</sup> Hellenic Polymer Society Conference, Patras, December 2014.*

[141] a. "How different is water crystallization from polymer crystallization under confinement?" (Oral presentation).  
b. "Polymer crystallization under confinement" (Oral presentation by Y. Suzuki)  
*APS Meeting, San Antonio, USA, March 2015.*

[142] "Influence of chain topology on polymer crystallization: Ring vs. linear Chains" (**Invited Speaker**)  
*Ring Polymers: Advances and Perspectives, Hersonissos Crete, July 2015.*

[143] "Soft Matter under Hard Confinement" (**Keynote lecture**)  
*European Polymer Federation-EPF2015, Dresden, July 2015.*

[144] "How different is water crystallization from polymer crystallization under confinement?" (**Invited Speaker**)  
*2<sup>nd</sup> Workshop on Progress in Bio- and Nanotechnology (BioNanoWorkshop 2015), Lodz, Poland.*

[145] a. "Influence of structure and dynamics on the ionic conductivity of new solid polymer electrolytes" (Poster by A. Pipertzis)  
b. "Designing Molecules for Organic Photovoltaics: The case of Hexasubstituted Benzenes carrying Ultrastrong Dipole Moments" (Poster by V. Margaritis)  
c. "Polymethacrylates with Polyhedral Oligomeric Silsesquioxane Moieties (POSS): The Influence of Spacer Length on Packing, Thermodynamics and dynamics" (Poster by G. Papamokos)  
d. "Capillary Rise in Cylindrical Nanoconfinement of cis-1,4 Polyisoprene and Poly(methyl phenyl siloxane)" (Poster by S. Alexandris)  
*XXXI Panhellenic Conference on Solid-State Physics and Materials Science, September 2015, Thessaloniki.*

[146] "How different is water crystallization from polymer crystallization under confinement?" (**Invited Speaker**)  
*Workshop of the Institute of Chemistry Chinese Academy of Sciences (ICASS)-MPIP,*  
Beijing October 2015.

#### **XIV. ΟΜΙΛΙΕΣ ΚΑΤΟΠΙΝ ΠΡΟΣΚΛΗΣΕΩΣ ΣΕ ΠΑΝΕΠΙΣΤΗΜΙΑ ΚΑΙ ΕΘΝΙΚΑ ΕΡΕΥΝΗΤΙΚΑ ΚΕΝΤΡΑ**

- [1] The Hebrew University of Jerusalem, Jerusalem, April 2015  
"Soft Matter under Hard Confinement"
- [2] University of Athens, Dept. of Chemistry, April 2015  
"Soft matter under Confinement"
- [3] University of Tennessee, Knoxville, February 2015.  
"Soft Matter under Hard Confinement"
- [4] University of Dortmund, Dept. of Physics, February 2015.  
"Discotic liquid crystals of nanographenes"
- [5] Harvard University, Boston December 3, 2014.  
"Discotic liquid crystals of nanographenes"
- [6] Max-Planck Institute of Colloids and Interfaces, Golm, 22/7/2014  
"Soft Matter under Hard Confinement"
- [7] Materials Physics Center (CFM), joint center of the Spanish Research Council (CSIC) and the University of the Basque Country (UPV/EHU) - 5th Laboratory course on Dielectric Spectroscopy, 19-23 May 2014, San Sebastián – Spain  
"Applications of Dielectric Spectroscopy in soft materials with intrinsic order"
- [8] Materials Physics Center (CFM), joint center of the Spanish Research Council (CSIC) and the University of the Basque Country (UPV/EHU) - May 2014, San Sebastián – Spain, "Discotic Liquid Crystals of nanographenes"
- [9] Université Libre de Bruxelles, Chimie des Polymères, Bruxelles, September 2013  
"Discotic liquid crystals in motion"
- [10] Fraunhofer Institute for Biomedical Engineering, S. Ingbert, July 2013  
"Soft Matter under Confinement- Discotic Liquid Crystals"
- [11] Martin-Luther Universität Halle-Wittenberg, Institute of Physics, Colloquium SFBTRR June 2012, "Discotic liquid crystals in motion"
- [12] University of Vienna, Dept. of Physics, Vienna, May 2012.  
"Self-assembly and dynamics of Discotic Liquid Crystals of nanographenes"
- [13] University of Milano Bicocca, Dept. of Materials Science, PhD School in Nanostructures and Nanotechnologies, March 2012.  
"Soft matter under hard confinement"
- [14] University of Cyprus, Dept. of Chemistry, March 2010.  
"Hierarchical self-assembly of block copolypeptides"
- [15] Foundation for Research and Technology, IESL, Heraklion, November 2009  
"Discotic Liquid Crystals of nanographenes"
- [16] University of Ioannina, Dept. of Physics, Oct. 2009  
"Discotic Liquid Crystals of nanographenes"
- [17] National Hellenic Research Foundation (NHRF), Athens, June 2008.  
"Discotic Liquid crystals: Thermodynamics and Dynamics"
- [18] Princeton University, Department of Chemical Engineering, Princeton, N.J. August 2007, "Hierarchical self-assembly and dynamics of polypeptides and block copolypeptides"
- [19] Max-Planck Institute for Polymer Research, Mainz, July 20, 2007  
"Polymers in Motion"
- [20] University of Athens, Dept. of Chemistry, Polymer Group, June 2007  
"Polypeptide Self-assembly and Dynamics"
- [21] Max-Planck Institute for Polymer Research, Polymer Physics Group seminar, Hirschegg, March 2007  
"Polymer Dynamics"

- [22] University of Crete, Dept. of Materials Science and Technology, Crete, Dec. 2006  
"Polypeptides in Motion"
- [23] University of Ioannina, Dept. of Physics, November 2006  
"Polymer Dynamics"
- [24] Foundation for Research and Technology (FORTH), Crete, June 2005  
"Nanodomain-induced chain folding in polypeptide copolymers"
- [25] Max-Planck Institute for Polymer Research, Polymer Physics group (Prof. Dr. H.-J. Butt), Jan 2005, "Self-assembly and dynamics of polypeptides"
- [26] Institute of Electronic Structure and Laser (IESL-FORTH), (Polymer Group), Aug. 2004, "Structure and dynamics of polypeptides"
- [27] University of Ioannina, Dept. of Physics, March 2004  
"Hierarchy of structures and dynamics in peptides"
- [28] Biomedical Research Institute- FORTH, February 2004  
"Hierarchical self-assembly and dynamics of poly( $\gamma$ -benzyl-L-glutamate)
- [29] University of Ioannina, Dept. of Material Science and Engineering, November 2003, "Glass transition in amorphous systems"
- [30] International Max-Planck School on Polymer Characterization, Eitorf, October 2003, "Thermal Properties of Polymers"
- [31] University of Patras and Graduate School on Polymer Science and Technology, June 2003, "Hierarchical self-assembly and dynamics of BLG oligopeptides"
- [32] Max-Planck Institut fur Polymerforschung (MPI-P), Polymer Physics group (Prof. Dr. H.-J. Butt), Jan. 2003.  
"Effect of pressure on polymer dynamics"
- [33] Deutsches Kunststoff Institut (DKI), Polymer Physics Group (Dr. I. Alig), Jan. 2003  
"Effect of pressure on polymer dynamics"
- [34] University of Ioannina, Dept. of Computer Science, March 2002  
"Polymer Nanostructures"
- [35] Cornell University, Dept. of Material Science, December 2001  
"Block Copolymers"
- [36] University of Ioannina, Dept. of Physics, November 2001.  
"Polymers. Materials of the Century?"
- [37] National Hellenic Research Foundation (NHRF) (Dr. E. Kamitsos), Institute of Theoretical and Physical Chemistry, November 2000  
"Effect of Pressure on Polymer Dynamics"
- [38] University of Leeds (Dr. I. Hamley), February 2000.  
"Self-organization in complex polymer systems"
- [39] University of Dresden and Institute of Polymer Research (IPF) (Prof. Dr. M. Stamm), December 1999.  
"Structure and Dynamics of Block Copolymers"
- [40] University of Leipzig (Prof. Dr. F. Kremer), December 1999.  
"Structure self-assembly and Dynamics of Block Copolymers"
- [41] University of Ioannina, Dept. of Physics, Physics Colloquium, February 1999.  
"Structure and Dynamics of Complex Polymer Systems"
- [42] Imperial College, Dept. of Chemical Engineering (Prof. J. S. Higgins), October 1998  
"Self-Assembly in Block Copolymers"
- [43] University of Crete, Dept. of Physics, Physics Colloquium, October 1998  
"Self-organization in complex polymer systems"
- [44] Deutsches Kunststoff Institut (DKI), Polymer Physics Group (Dr. I. Alig), February 1998  
"Equilibrium Order-to-Disorder Transition in Block Copolymers"

- [45] The Pennsylvania State University, Dept. of Material Science and Engineering, November 1997  
 "Dynamics of Block Copolymers Confined in Microdomains"
- [46] University of Patras, Dept. of Chem. Eng., March 1997  
 "Microphase Separation in Block Copolymers. Structure, Kinetics and Dynamics in Confined Geometries"
- [47] Institut de Chimie des Surfaces et Interfaces-C.N.R.S. (Dr. G. Reiter) Mulhouse, March 1997  
 "Microphase Separation in Model Block Copolymers"
- [48] Freiburg Materials Research Center (Prof. Dr. Gronski), Freiburg, March 1997  
 "Microphase Separation in Block Copolymers and Block Copolymer Blends"
- [49] Deutsches Kunststoff Institut (DKI), Polymer Physics Group (Dr. I. Alig), February 1997  
 "Block Copolymers and Block Copolymer Blends. Structure and Dynamics"
- [50] M.I.T., Dept. of Materials Science and Eng. (Prof. E.L. Thomas), Boston, August 1996  
 "Order-disorder transition in Non-Linear Block Copolymers"
- [51] University of Patras, Dept. of Chem. Eng. and Institute of Chemical Eng. and High Temperature Chemical Processes, March 1996  
 "Microphase Separation in Block Copolymers"
- [52] Deutsches Kunststoff Institut (DKI), Polymer Physics Group (Dr. I. Alig), Darmstadt, February 1996  
 "Microphase Separation in Non-Linear Block Copolymers"
- [53] University of Athens, Department of Chemistry (Polymer Synthesis Group of Prof. N. Hadjichristidis), December 1995  
 "Microphase Separation in Block Copolymers"
- [54] Princeton University, Department of Chemical Engineering, Princeton, N.J. (Invited by Prof. R. Register)-Special Complex Fluids Seminar, July 6, 1995.  
 "Microphase Separation in Model Block Copolymers"
- [55] State University of New York at Stony Brook, Department of Chemistry (Invited by Prof. B. Chu)- Physical Chemistry Seminar, July 19, 1995.  
 "Microphase Separation in Model Copolymers and Terpolymers"
- [56] Han Wha Research and Engeneering Center, Daejeon, Korea (Invited by Dr. Min, Director, Nov. 1995).  
 "Theory of Phase Separation, Morphology and Characterization Tecniques of Block Copolymers"  
 "Compatibility Enhancement in Star-Shaped Copolymers"
- [57] Moscow State University, Department of Physics (Invited by Prof. A.R. Khokhlov); October 1994.  
 "Microphase Separation in Model 3-arm Star Block Copolymers"
- [58] Foundation for Research and Technology (FORTH), April 1994.  
 "Statics, Kinetics and Dynamics of Block Copolymers".
- [59] Max-Planck-Institut fur Polymerforschung , March 1994.  
 "Block Copolymer Melts: Statics, Kinetics and Dynamics".
- [60] Deutsches Kunststoff Institut (DKI) (Invited by Dr. I. Alig); November 1993.  
 "Density and Concentration Fluctuations in Amorphous Polymers as Studied by X-Ray Diffraction".
- [61] Max-Planck-Institut fur Polymerforschung (Invited by Prof. Dr. E.W. Fischer); January 1992.  
 "Dynamics of Glass-Forming Liquids and Polymer Blends by Quasielastic Neutron Scattering".

- [62] ICI, Runcorn, Liverpool (Invited by Dr. A. Burgess), April 1991.  
"Dynamics of Polymers as Studied by Neutron Scattering"
- [63] Imperial College, Dept. of Chemical Engineering, March 1991.  
"Dynamics of Density, Concentration and Orientation Fluctuations in Dense Polymer Systems".
- [64] University of Crete, Dept. of Physics, 1988.  
"Optical Anisotropy of Flexible Molecules by Depolarized Light Scattering"
- [65] University of Crete, Dept. of Physics, January 1986.  
"Light Scattering from Halide Glasses"
- [66] Rensselaer Polytechnic Institute, Troy, New York, December 1985.  
"Rayleigh-Brillouin Scattering in Halide Glasses"