Na osnovu člana 66. Zakona o visokom obrazovanju ("Službeni glasnik RS“ br. 76/2005, 100/2007–autentično tumačenje, 97/2008, 44/2010, 93/2012, 89/2013, 99/2014, 45/2015- autentično tumačenje, i 68/2015), Nastavno-naučno veće Tehnološko-metalurškog fakulteta u Beogradu na sednici održanoj 15. septembra 2016. godine utvrdilo je

O D L U K U

Dr Constantinos Georgiou predlaže se za izbor u zvanje gostujućeg profesora**.**

Po dostavljanju odluke o izboru u zvanje od strane Univerziteta u Beogradu, dekan će sa imenovanim zaključiti ugovor o angažovanju za izvođenje nastave.

Obrazloženje

Nastavno-naučno veće Tehnološko-metalurškog fakulteta u Beogradu je dana 23.06.2016. godine, obrazovalo Komisiju za pripremu izveštaja o izboru gostujućeg profesora u sastavu: dr Branko Bugarski, redovni profesor Tehnološko-metalurškog fakulteta u Beogradu, dr Aleksandar Orlović, redovni profesor Tehnološko-metalurškog fakulteta, dr Đorđe Janaćković, redovni profesor Tehnološko-metalurškog fakulteta u Beogradu.

Komisija je sačinila izveštaj i isti je dostavljen Nastavno-naučnom veću na usvajanje.

Nastavno-naučno veće je na svojoj sednici od 15.09.2016. godine, prihvatilo izveštaj Komisije i utvrdilo predlog da se dr Constantinos Georgiou izabere u zvanje gostujućeg profesora, pa je shodno tome doneta odluka kao u dispozitivu.

Dostaviti:
- Sekretaru OU
- Univerzitetu
- Odseku za kadrovske i opšte poslove
- Arhivi

D E K A N

Prof. dr Đorđe Janaćković

НАСТАВНО-НАУЧНОМ ВЕЋУ
ТЕХНОЛОШКО-МЕТАЛУРШКОГ ФАКУЛТЕТА
УНИВЕРЗИТЕТА У БЕОГРАДУ

Одлуком Наставно-научног већа Технолошко-металуршког факултета Универзитета у Београду на седници одржаној 23.06.2016. године, именовани смо за чланове Комисије за припрему извештаја за предлог избора професора Constantinosa Georgiou-a у звање гостујућег професора.

О кандидату, проф. Constantinosu Georgiou-у, подносимо следећи

И З В Е Ш Т А Ј

А. БИОГРАФСКИ ПОДАЦИ

Професор Constantinos Georgiou је редовни професор на Пољопривредном Универзитету у Атини, где ради у оквиру лабораторије за хемију. Професор Georgiou је дипломирао на Универзиету у Атини 1984. године на студијама хемије. Докторат је одбранио 1990. године на Универзитету у Атини у области аналитичке хемије: *Development and application of novel flow injection methods in pharmaceutical analysis,* C. A. Georgiou, *PhD Thesis*, University of Athens, Greece, **1990**. У оквиру професионалне каријере професор Georgiou је био радно ангажован у оквиру наведених институција:

- Agricultural University of Athens, Greece: Professor 2009; Associate Professor 2001; Assistant Professor, 1995.
- Greek Open University, Patras: Tutor, 2001 – 2005.
- Agia Eleni Hospital, Biochemist in Chief, Biochemical and Enzyme-Immuno Assays, Athens, Greece 1991 – 1995.
- University of Athens, Analytical Chemistry Laboratory, Doctoral Research, Flow Injection in Pharmaceutical Analysis, Athens, Greece 1986 – 1990.
- Greek Military Air Force Laboratory, Analyst, fuel and oil analyses, Athens, Greece 1985 – 1986.
- University of Patras, Chemical Engineering and High Temperature Processes Research Institute, Research Associate, Surface Enhanced Raman Spectroscopy, Patras, Greece 1984 – 1985.
- Kern Forshung Anlage, training, Voltammetric Techniques, Juelich, Germany 1982.

На Пољопривредном Универзитету у Атини, као и на другим универзитетима у Грчкој, професор Georgiou је ангажован у настави из предмета Аналитичке хемије као и Опште и неорганске хемије. Професионална и истраживачка интересовања професора Georgiou-a су у областима: елементалне метаболомике, аутентикације хране, аналитичке биохемије, аутоматизованих аналитичких метода и оцене токсичности прехрамбених производа.

У оквиру свог научног и наставног ангажовања професор Georgiou је остварио сарадњу са већим бројем реномираних научно-истраживачких организација:

- Harvard Medical School, Dana-Farber Cancer Institute (Prof. Vladimir Brusic).
- University of Copenhagen, Denmark, Faculty of Life Sciences, Food Science/Food Chemistry Department (Prof. Leif Skibsted).
- University of Wageningen, Faculty of Agrotechnology & Food Sciences, Food Chemistry Department (Prof. Harry Groupen).
- Idaho State University, USA, Analytical Chemistry Department (Prof. John Kalivas).
- University of Copenhagen, Denmark, Faculty of Life Sciences, Plant Biology and Biotechnology Department (Prof. Wiliam Willats).
- Menzies Health Institute Queensland, Griffith University, Gold Coast, QLD Australia (Assist. Prof. Ping Zhang).
- FOSS Electric, Denmark (Research Scientist Max Egebo).
- DSM Food Specialties, Netherlands (Principal Scientist, Marko Van den Berg).
- University of Belgrade, Faculty of Technology and metallurgy, Chemical Engineering Department and Biochemical Engineering Department (Prof. Branko Bugarski, Prof. Alexander Orlovic).
- McGill University, Canada, Food Science and Agricultural Chemistry Department, IR group (Prof. Fred van de Voort).
- Ukrainian Academy of Sciences, Kiev, Ukraine, Institute of Molecular Biology and Genetics (Academician Anna Elskaya, Dr. Alexey Soldatkin, Dr. Yaroslav Korpan).
- Ben Gurion University, Israel, Desert Research Institute (Prof. Gideon Oron).
- Israel Institute of Technology, Technion (Em. Prof. Josef Hagin).
- Agricultural University of Coimbra, Portugal, Food Chemistry Department (Prof. A.M.G. Moreira da Silva).
- Semmelweis University, Genetics Department, Cell- and Immunobiology, Budapest, Hungary (Prof. Andras Falus).
- Banat`s University of Agricultural Sciences and Veterinary Medicine Timisoara, Romania, Food Processing Faculty (Assoc. Prof. Marianna-Atena Poiana).
- Charles University of Prague, Czech Republic, Analytical Chemistry Department, School of Pharmacy (Prof. Peter Solich).
- The Poznan University of Economics, Poland, Commodity Science Department (Prof. Ewa Sicorska).

Током досадашње каријере професор Georgiou је остварио значајну сарадњу са Технолошко-металуршким факултетом Универзитета у Београду при чему је његов ангажман допринео да се у оквиру Технолошко-металуршког факултета успешно изведе пројекат ЕУ Комисије FP7 REGPOT NANOTECH FTM. Сарадња са Технолошко-металуршким факултетом је успешно настављена и текућим пројектом размене у оквиру програма ERASMUS+. Професор Georgiou је лично посвећен развоју укупних односа Србије и Грчке и у другим областима, тако да је председавајући грчко-српске школе у Атини од 2011. године.

Б. ДИСЕРТАЦИЈЕ

Одбрањена докторска дисертација

Development and application of novel flow injection methods in pharmaceutical analysis, C. A. Georgiou, *PhD Thesis*, University of Athens, Greece, **1990**.

В. НАСТАВНА ДЕЛАТНОСТ

На Пољопривредном Универзитету у Атини, као и на другим универзитетима у Грчкој, професор Georgiou је ангажован у настави из предмета Аналитичке хемије као и Опште и неорганске хемије.

Г. ПЕДАГОШКА АКТИВНОСТ

Професор Constantinos Georgiou је у досадашњој каријери руководио радом три истраживача у оквиру њиховог пост-докторског усавршавања:

1. Madina N. Tsountsaeva, JAN - MAR/2005. Current job: Researcher, Laboratory of Chemical Analysis, Institute of Structural Macrokinetics and Materials Science, Russian Academy of Sciences.
2. Yaroslava Makarovska, MAR - MAY/2005. Current job: Researcher, University of Antwerp - Department of Chemistry, Micro- and Trace Analysis Center, Belgium.
3. Nicolaos Thomaidis, JAN/1998-JAN/1999. Current job: Associate Professor, Department of Analytical Chemistry, University of Athens, Greece.

Такође, професор Georgiou је био ментор следећим студентима у оквиру академских докторских студија:

1. Georgios Danezis (2016): *Food Authentication: Development of analytical methods for determination of rare earth elements as an indicator of geographical origin*.
2. Eystathios Vassileiou (2016): *Fluidics automation in analytical chemistry*.
3. Lucyna Lekawska, Marie Curie Scholar (2013): *Automated methods for lean green food processes*.
4. Justyna Lukasiak, Marie Curie Scholar (2013): *Development of microbial biosensors for food ingredient assessment*.
5. Efstratios Komaitis (2011): *Bioluminescence whole cell biosensors, in fluidic analysis.*
6. Katerina Minioti (2009): *Novel methods for total antioxidant activity determination – application in olive oil*.
7. Konstantina Pouli (2009): *Synchronous scan fluorescence in edible oil analysis*.
8. Stavroula Skoulika (2001): *Quantitative determination of pesticides and pharmaceutics through Raman spectroscopy*.
9. Panayotis Nouros (2001): *Flow injection methods for olive oil quality assessment*.

Д. НАУЧНО-ИСТРАЖИВАЧКА ДЕЛАТНОСТ

Професор Constantinos Georgiou је у оквиру научно-истраживачког рада објавио 10 књига и монографија од чега једну монографију истакнутог међународног значаја категорије М11 издавача Willey – Blackwell, 68 радова у часописима међународног значаја, од тога: 22 рада у врхунским међународним часописима категорије М21а, 16 радоваа у врхунским међународним часописима категорије М21, 15 радова у истакнутим међународним часописима категорије М22, 4 рада у међународним

часописима категорије М23 и 11 радова у међународним часописима без категоризације.

Ови радови су до сада **цитирани 959 пута** у научној литератури на основу базе SCOPUS, без самоцитата свих коаутора и са **вредношћу х индекса од 20**.

Професор Georgiou је саопштио 73 рада на међународним и националним научним скуповима. Руководио је и учествовао у 18 истраживачких пројеката, већином на међународном нивоу.

СПИСАК РАДОВА

На основу члана 3. Правилника о условима и начину ангажовања гостујућег професора на Универзитету у Београду, за гостујућег професора на Универзитету у Београду може бити изабран наставник који има:

1. већи број научних радова објављених у водећим међународним часописима,
2. већи број научних радова саопштених на међународним скуповима,
3. остварене резултате у развоју одговарајуће образовно-научне области
4. већу цитираност научних резултата и
5. међународну научну репутацију и то:

- да је био гост-уредник у угледним међународним научним часописима;
- да је председавао међународним научним конференцијама;
- да има чланство у уређивачким одборима међународних научних часописа;
- да је аутор међународне научне монографије.

Резултати које је у досадашњој научно-истраживачкој каријери остварио професор Constantinos Georgiou, у смислу члана 3. Правилника, су:

Већи број научних радова објављених у водећим међународним часописима

М21а међународни часописи изузетних вредности

1. *Food Authentication: Techniques, trends & emerging approaches,* G. P. Danezis, A. S. Tsagkaris, F. Camin, V. Brusic, C. A. Georgiou, *Trends in Analytical Chemistry, in press,* **2016.** doi:10.1016/j.trac.2016.02.026 **Chemistry, Analytical (2/75) IF=7.487**
2. *Development of an integrated biorefinery based on fractionation of spent sulphite liquor for the production of an antioxidant - rich extract, lignosulphonates and succinic acid,* M. Alexandri, H. Papapostolou, M. Komaitis, L. Stragier, W. Verstraete, G. P. Danezis, C. A. Georgiou, S. Papanikolaou, A. A. Koutinas, Bioresource Technology, 214, p. 504-513, **2016. Agricultural Engineering (1/14) Biotechnology & Applied Microbiology (17/161) Energy & Fuels (11/88) IF=4.917**
3. *Data fusion for food authentication: Combining rare earth elements and trace metals to discriminate PDO "Fava Santorinis" from other yellow split peas using chemometric tools,* S. A. Drivelos, K. Higgins, J. H. Kalivas, S. A. Haroutounian, C.A. Georgiou*, Food Chemistry, 165,* 316-322*,* **2014. Chemistry, Applied (7/71) Food Science & Technology (7/124) Nutrition & Dietetics (12/78) IF=4.032**
4. *Food adulteration analysis without laboratory prepared or determined reference food adulterant values,* J.H. Kalivas, C.A. Georgiou, M. Moira, I. Tsafaras, E.A. Petrakis, G.A. Mousdis, *Food Chemistry, 148,* 289-293, **2014. Chemistry, Applied (7/71) Food Science & Technology (7/124) Nutrition & Dietetics (12/78) IF=4.032**
5. *Hydrotreating of straight-run gas oil blended with FCC naphtha and light cycle oil ,* Z. Dukanovic, S.B. Glisic, V.J. Cobanina, M. Niciforovic, C.A. Georgiou, A.M. Orlovic,

Fuel Processing Technology, 106, 160-165, **2013**. **Chemistry, Applied (7/71) Energy & Fuels (19/88) Engineering, Chemical (12/133) IF=3.707**

6. *Sustainable production of pectin from lime peel by high hydrostatic pressure treatment*, M. Naghshineh, K. Olsen and C.A. Georgiou, *Food Chemistry*, *136,* 472-478, **2013. Chemistry, Applied (7/71) Food Science & Technology (7/124) Nutrition & Dietetics (12/78) IF=3.391**
7. *A review of multi-element analysis and multi-isotope ratio coupled with chemometric tools for the determination of the geographical origin of food and beverages in the European Union*, S. A. Drivelos, C. A. Georgiou, *Trends in Analytical Chemistry, 40,* 38-51, **2012**. **Chemistry, Analytical (2/75) IF=6.351**
8. *Updating a synchronous fluorescence spectroscopic virgin olive oil adulteration calibration to a new geographical region*, M.R. Kunz, J. Ottaway, J.H. Kalivas, C.A. Georgiou, G.A. Mousdis, *Journal of Agricultural and Food Chemistry, 59,* 1051-1057, **2011**. **Agriculture, Multidisciplinary (3/57) Chemistry, Applied (14/71) Food Science & Technology (19/124) IF=2.823**
9. *Iron or zinc dialyzability obtained from a modified in vitro digestion procedure compare well with iron or zinc absorption from meals,* K. Argyri, E. Theophanidi, A. Kapna, C. Staikidou, G. Pounis, M. Komaitis, C. Georgiou, M. Kapsokefalou, *Food Chemistry, 127,*716-721, **2011**. **Chemistry, Applied (7/71) Food Science & Technology (7/124) Nutrition & Dietetics (12/78) IF=3.655**
10. *Synchronous fluorescence spectroscopy: tool for monitoring thermally stressed edible oils*, K. G. Poulli, N. V. Chantzos, G. N. Mousdis and C. A. Georgiou, *Journal of Agricultural and Food Chemistry, 57,* 8194-201, **2009**. **Agriculture, Multidisciplinary (3/57) Chemistry, Applied (14/71) Food Science & Technology (19/124) IF=2.562**
11. *Monitoring olive oil oxidation under thermal and uv stress through synchronous fluorescence spectroscopy and classical assays*, K. G. Poulli, G. N. Mousdis and C. A. Georgiou, *Food Chemistry, 117,* 499-503, **2009**. **Chemistry, Applied (7/71) Food Science & Technology (7/124) Nutrition & Dietetics (12/78) IF=3.146**
12. *High throughput flow injection bioluminometric method for olive oil antioxidant capacity,* A. S. Minioti, C. A. Georgiou, *Food Chemistry*, *109*, 455-461, **2008**. **Chemistry, Applied (7/71) Food Science & Technology (7/124) Nutrition & Dietetics (12/78) IF=3.146**
13. *Rapid synchronous fluorescence method for virgin olive oil adulteration assessment*, K. G. Poulli, G. N. Mousdis and C. A. Georgiou, *Food Chemistry, 105,* 369-375, **2007**. **Chemistry, Applied (7/71) Food Science & Technology (7/124) Nutrition & Dietetics (12/78) IF=3.052**
14. *Rapid, fully automated flow injection antioxidant capacity assay*, E. P. Labrinea and C. A. Georgiou, *Journal of Agricultural and Food Chemistry, 53,* 4341*,* **2005**. **Agriculture, Multidisciplinary (3/57) Chemistry, Applied (14/71) Food Science & Technology (19/124) IF=2.322**
15. *Early-warning electrochemical biosensor system for environmental monitoring based on enzyme inhibition*, S. Dzyadevych, V. Arkhypova, N. Jaffrezic-Renault, C. Martelet, J. -M. Chovelon, C. A. Georgiou and A. Soldatkin, *Sensors and Actuators, B, 105,* 81*,* **2005**. **Instruments & Instrumentation (1/52) IF=2.646**
16. *Rapid, non invasive quantitative determination of acyclovir in pharmaceutical solid dosage forms through their PVC-blister package by solid-state FT-Raman spectroscopy,* S. G. Skoulika and C. A. Georgiou, *Applied Spectroscopy, 57,* 407, **2003**. **Instruments & Instrumentation (3/48) Spectroscopy (12/41) IF=1.717**
17. *Univariate and multivariate calibration for the quantitative determination of methyl-parathion in pesticide formulations by FT-Raman spectroscopy,* S. G. Skoulika and C. A.

Georgiou, *Applied Spectroscopy*, *54,* 747, **2000**. **Instruments & Instrumentation (1/52) Spectroscopy (11/37) IF=1.948**

18. *Rapid quantitative determination of ciprofloxacin in pharmaceuticals using solid-state FT-Raman spectroscopy,* S. G. Skoulika and C. A. Georgiou, *Applied Spectroscopy*, *55*, 1259-1265, **2001**. **Instruments & Instrumentation (1/48) Spectroscopy (14/40) IF=1.752**
19. *Quantitative determination of fenthion in pesticide formulations by FT-Raman spectroscopy*, S. G. Skoulika, C. A. Georgiou and M. G. Polissiou, *Applied Spectroscopy, 53*, 1470, **1999**. **Instruments & Instrumentation (1/52) Spectroscopy (11/34) IF=2.084**
20. *Analytical chemistry in the European Union during 1993-1999: an appraisal on the basis of papers abstracted in analytical abstracts,* C. A. Georgiou and N. S. Thomaidis, *Trends in Analytical Chemistry, 20,* 462*,* **2001**. **Chemistry, Analytical (3/68) IF=4.260**
21. *Automated flow injection gradient technique for binding studies of micromolecules to proteins using potentiometric sensors: application to bovine serum albumin with anilinonaphthalenesulfonate probe and drugs*, M. E. Georgiou, C. A. Georgiou and M. A. Koupparis, *Analytical Chemistry, 71,* 2541, **1999**. **Chemistry, Analytical (3/66) IF=4.555**
22. *Flow injection gradient technique in spectrophotometric determination of formation constants of micromolecule cyclodextrin complexes,* M. E. Georgiou, C. A. Georgiou and M. A. Koupparis, *Analytical Chemistry, 67*, 114, **1995**. **Chemistry, Analytical (1/43) IF=4.494**

<u>M21 врхунски међународни часописи</u>

1. *Selenium affects the expression of GPx4 and catalase in the liver of chicken*, E. Zoidis, A. C. Pappas, C. A. Georgiou, E. Komaitis, K. Feggeros, *Comparative Biochemistry and Physiology, Part B*, *155*, 294-300, **2010**. **Zoology (24/145) IF=1.989**
2. *Development of a fully automated flow injection analyzer implementing bioluminescent biosensors for water toxicity assessment,* E. M. Komaitis, E. G. Vasilioy, G. Kremmydas, D. G. Georgakopoulos, C. A. Georgiou, *Sensors, 10,* 7089-7098, **2010**. **Chemistry, Analytical (36/75) Electrochemistry (16/27) Instruments & Instrumentation (12/56) IF=1.774**
3. *Synchronous fluorescence spectroscopy for quantitative determination of virgin olive oil adulteration with sunflower oil*, K. G. Poulli, G. N. Mousdis and C. A. Georgiou, *Analytical and Bioanalytical Chemistry, 386,*1571-1575*,* **2006**. **Chemistry, Analytical (17/68) IF=2,591**
4. *Classification of edible and lampante virgin olive oil based on synchronous fluorescence and total luminescence spectroscopy*, K. G. Poulli, G. N. Mousdis and C. A. Georgiou, *Analytica Chimica Acta, 542,* 151*,* **2005**. **Chemistry, Analytical (10/68) IF=2.894**
5. *Stopped-flow method for assessment of ph and timing effect on the ABTS total antioxidant capacity assay,* E. P. Labrinea and C. A. Georgiou, *Analytica Chimica Acta, 526*, 63*,* **2004**. **Chemistry, Analytical (10/68) IF=2.894**
6. *Analytical chemistry in balkan and east mediterranean countries during 1994-2001*, N. S. Thomaidis, C. A. Georgiou and A. C. Calokerinos, *Analytica Chimica Acta, 505,* 3, **2004**. **Chemistry, Analytical (10/68) IF=2.894**
7. *Olive oil anisidine value determination by flow injection*, E. P. Labrinea, N. S. Thomaidis and C. A. Georgiou, *Analytica Chimica Acta*, *448,* 201, **2001**. **Chemistry, Analytical (13/68) IF=2.073**
8. *Direct parallel flow injection multichannel spectrophotometric determination of olive oil iodine value*, N. S. Thomaidis and C. A. Georgiou, *Analytica Chimica Acta, 405*, 239, **2000**. **Chemistry, Analytical (13/68) IF=2.073**

9. *Determination of olive oil 2-thiobarbituric acid reactive substances by parallel flow injection,* P. G. Nouros, C. A. Georgiou and M. G. Polissiou, *Analytica Chimica Acta, 417,* 119, **2000**. **Chemistry, Analytical (13/68) IF=2.073**
10. *Direct parallel flow injection multichannel spectrophotometric determination of olive oil peroxide value,* P. G. Nouros, C. A. Georgiou and M. G Polissiou, *Analytica Chimica Acta, 389,* 239, **1999**. **Chemistry, Analytical (16/66) IF=1.894**
11. *Automated flow injection spectrophotometric non-aqueous titrimetric determination of the free fatty acid content of olive oil*, P. G. Nouros, C. A. Georgiou and M. Polissiou, *Analytica Chimica Acta, 351,* 291, **1997**. **Chemistry, Analytical (17/59) IF=1.778**
12. *Automated flow-injection dynamic dialysis technique in the study of drug binding with cyclodextrins*, E. E. Sideris, C. A. Georgiou, M. A. Koupparis and P. E. Macheras, *Analytica Chimica Acta, 289*, 87, **1994**. **Chemistry, Analytical (17/59) IF=1.778**
13. *Rapid automated spectrophotometric competitive complexation studies of drugs with cyclodextrins using the flow injection gradient technique: tricyclic antidepressant drugs with a-cyclodextrin*, M. E. Georgiou, C. A. Georgiou and M. A. Koupparis, *Analyst, 124,* 391, **1999**. **Chemistry, Analytical (14/65) IF=1.843**
14. *Use of ion-selective electrodes in kinetic flow injection: determination of phenolic and hydrazino drugs with 1-fluoro-2,4-dinitrobenzene using a fluoride-selective electrode,* J. C. Apostolakis, C. A. Georgiou and M. A. Koupparis, *Analyst, 116*, 233, **1991**. **Chemistry, Analytical (11/41) IF=1.513**
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<u>Већи број научних радова саопштених на међународним скуповима</u>

Током досадашњег научно-истраживачког рада професор Georgiou је саопштио следеће радове на међународним скуповима:

1. *Elemental Metabolomics – Linking Environmental, Food, Nutrition and Health Sciences,* P. Zhang [1], C.A. Georgiou [2], V. Brusic [1,3*], *10th International Conference on Bioinformatics of Genome Regulation and Structure/ Systems Biology, BGRS/SB2016,* Novosibirsk, Russia, 29 August – 2 September, **2016.**
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6. *Seasonal variation of elemental profile in PDO "Tomataki Santorinis",* G. Danezis, S. Drivelos, A. Tsagkaris, C. Papachristidis, D. Sotirchos, S. Roxanis, K. Panourgias, C.A. Georgiou, *Food Chemistry Days 2015*, Athens, Greece, November 26-27, **2015.**
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10. *Fluidic biosensor unit prototype featuring sensitivities down to the pM level for early detection of quorum sensing molecules,* G. Danezis, M. Moira, C.A. Georgiou, *EFFOST 2015*, Athens, Greece, November 10-12, **2015.**

11. *Rare earth elements & actinides accumulation patterns in game meat, backyard & commercial rabbits,* G. Danezis, A. Tsagkaris, E. Zoidis, A.C. Pappas, C. Papachristidis, C. Vavvas, G. Papadomichelakis, I. Hadjigeorgiou, V. Brusic, C.A. Georgiou, *IMA 2015*, Kalamata, Greece, September 21-24, **2015.**
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71. *Kinetic spectrophotometric determinations of drugs based on their reaction with 1fluoro2,4dinitrobenzene using flow stopped flow technique*, C. A. Georgiou and M. A. Koupparis, 3rd *International Symposium on Kinetics in Analytical Chemistry*, book of abstracts, 25 – 28 September **1989**, Dubrovnik, Yugoslavia.
72. *Automated determination of aminofen, hydrochloric isoxsuprine and others substituted phenols with the method of flow injection analysis, based on their oxidative condensation with 1-nitroso-2-vaftholi presence of Ce (IV) or Pb (IV),* C. A. Georgiou and M. A. Koupparis, *12th Panellenic Chemistry Conference,* proceedings volume B, p. 694 – 698, 21-25 November **1988**, Thessaloniki, Greece
73. *Automated determination of amines and their hydrochloric salts with non-aqueous spectrophotometric fasle-titrate flow injection.* C. A. Georgiou and M. A. Koupparis, *4th Panellenic Drug Conference*, proceedings, p. 694 – 698, 21-23 May **1988**, Athens, Greece

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<u>Остварени резултати у развоју одговарајуће образовно-научне области</u>

На Пољопривредном Универзитету у Атини професор Georgiou је ангажован у настави из предмета Аналитичке хемије као и Опште и неорганске хемије. Образовне и научне активности професора Georgiou-а су доминантно у областима: елементалне метаболомике, аутентикације хране, аналитичке биохемије, аутоматизованих аналитичких метода и оцене токсичности прехрамбених производа. Као што је раније наведено под **Г** осим вишегодишњег рада на основним академским студијама на

Пољопривредном Универзитету у Атини, професор Georgiou је руководио и радом три истраживача на пост-докторском усавршавању и радом девет студената докторским академским студијама. Његов допринос развоју образовно-научне области је уочљив и кроз књиге, монографије и уџбенике које је до данас објавио:

1. *FOOD AUTHENTICATION: Analysis, Regulation & Consumers*, C. A. Georgiou and G. P. Danezis, 320 pages, **Publisher:** Wiley-Blackwell (14 April 2017), **Language:** English, **ISBN-+10:** 1118810260 **ISBN-13:** 978-1118810262.
2. *Elemental and Isotopic Mass Spectrometry,* C. A. Georgiou and G. P. Danezis, **Invited chapter** in *Advanced Mass Spectrometry for Food Safety and Quality,* Y. Pico, *Comprehensive Analytical Chemistry*, p. 131-243, 2015.
3. *Fully automated fluidic analyzer for food quality assessment implementing bioluminescent biosensors*, E. Komaitis, E. Vasiliou, D. Georgakopoulos and C. A. Georgiou, **Invited chapter** in *Luminescent microbial biosensors*, G. Thouand, 2014.
4. *Following oil quality during thermal stress through total antioxidant capacity assays*, N. V. Chantzos and C. A. Georgiou, **Invited chapter** in *Food Chemistry Research Developments* edited by N. K. Papadopoulos, Nova Science Publishers, Inc, NY 2008, p. 13 – 20.
5. *3rd Aegean analytical chemistry day's proceedings*, C. E. Efstathiou, A. C. Calokerinos and C. A. Georgiou, Editors, Lesvos, Greece, 2002, p. 1 – 650.
6. *Chemistry laboratory handbook for the first semester*, C. A. Georgiou, Dimokriteio University of Thrace, Orestiada 2000, p. 1-23.
7. *Errors and statistical processing of analytical data,* C. A. Georgiou, Agricultural University of Athens Press, Athens 2000, p. 1-14.
8. *Handbook of analytical chemistry laboratory*, C. A. Georgiou, Agricultural University of Athens Press, Athens 2000, p. 1-43.
9. *Problems in analytical chemistry*, C. A. Georgiou, Agricultural University of Athens Press, Athens 1998, p. 1-40.
10. *Optimization of analytical methods*, M. A. Koupparis and C. A. Georgiou, chapter 8 in K. H. Efstathiou, D. S. Papastathopoulos, M. A. Koupparis and A. K. Kalokairinos (Eds), *Advanced topics in analytical chemistry,* Athanasopoulos-Papadamis, Athens, Greece, 1989, p. 40 – 47.

Допринос развоју образовно-научне области професора Georgiou-а може се видети и кроз већи број истраживачких пројеката којима је руководио и у којима је учествовао:

1. *Training professionals and students on new testing technologies for the food sector,* European Union, *KA2 ERASMUS+*, partner, 2016-2017. 65,000 €, total budget, 300,000 €.
2. *Panhellinic study for nutrition and health, plan action for the promotion of public health in the field of nutrition*, Ministry of Health, Greece, 2012-2015, total budget: 2,941,541.50 €.
3. *"Urban BioRoof" Cooperation for R&D on screening and formulation of substrates and plants for green roofs* - General Secretariat of Research and Technology, Greece, 2013-2015, total budget 300,000 €.
4. *Rapid spectroscopic methods for assessment of olive oil quality and adulteration,* SPECTRAOIL, Bilateral Greek-Romanian R&D Program, Republic of Romania, 2012 – 2014, 15,000 €.
5. *Biological holistic approach to the dynamic form of survival of bacterial pathogens formations – BIOIMENIA,* General Secretariat of Research and Technology, Greece, WP leader: Analytical, 2010-2014. 36,755 €, total budget: 600,000 €.

6. *LeanGreenFood-enzyme technology for Lean and Green Food processing,* European Union, FP 7 Marie Curie Actions-Networks for Initial Training (ITN), WP leader: Novel analytical technologies and Member of the Supervisory Board. 2009 – 2013. 628,922 €, total budget: 2,000,000 €.
7. *Reinforcing of nanotechnology and functional materials centre at faculty of technology and metalurgy,* University of Belgrade, NANOTECH FTM FP7-REGPOT-2009-1, FP 7 Programme, European Union, Networking partner, 2010 – 2012, total budget 1,298,774 €.
8. *Development and application of bioluminescent whole-cell biosensors: aldehydic compounds*, Empirikion Foundation, Greece, 2007 – 2009, 7,000 €.
9. *Total antioxidant capacity, free radicals and heavy metals in olive oil: indices of biological value, stability and origin*, General Secretariat of Research and Technology, Greece, 2005 – 2008, 130,000 €.
10. *Development and application of bioluminescent whole-cell biosensors*, Ministry of Education, Greece, 2005 – 2006, 80,000 €.
11. *Development and application of bioluminescent whole-cell biosensors for environmental toxicity assessment*, Bilateral Greek-Serbia R&D Program, 2004 – 2006, 11,150 €.
12. *Toxicity assessment of sanitary disposal land fill leachates by bioassays: chemometric correlation of bioassays with chemical analysis*, Union of Attica Municipalities, 2002 – 2006, 275,000 €.
13. *Construction and evaluation of a fully automated flow injection analyzer based on biosensor to screen agricultural samples for organophosphorus pesticides*, Bilateral Greek-Ukraine R&D Program, 2001 – 2003, 14,700 €.
14. *Development of fully automated flow injection methods for the quality assessment of food products*, Agricultural University of Athens Research Fund, 2001 – 2002, 5,900 €.
15. *Development of novel flow injection methods for the determination of total antioxidant capacity and applications to agricultural analysis*, Bilateral Greek-Spain R&D Program, 2000 – 2001, 11,700 €.
16. *Rapid, automated flow injection method for the determination of malondialdehyde in olive oil*, Agricultural University of Athens Research Fund, 1998 – 1999, 5,900 €.
17. *Biosensors for the assay of quality control of foods*, Collaboration with Prof. D. Papastathopoulos, EC Agriculture and Fisheries program, 1997 – 1999, 80,000 €.
18. *Automated determination of ammines and quaternary ammonium salts of pharmaceutical and clinical interest based on thermochromism*, Collaboration with Prof. D.S. Papastathopoulos, University of Athens Research Fund, 1996 – 1997, 5,000 €.

Професор Georgiou је током досадашњег рада радио као рецензент за следеће међународне научне часописе:

- *Acta Amazonica (BR)*
- *Agronomy Journal (USA)*
- *Agricultural Engineering International (USA)*
- *Analytica Chimica Acta (NL)*
- *Analytical Chemistry (USA)*
- *Analytical Methods (UK)*
- *Animal Feed Science and Technology (NL)*
- *Annali di Chimica (IT)*
- *Applied Spectroscopy (USA)*
- *Applied Biochemistry and Biotechnology (USA)*

- *Biosensors and Bioelectronics (NL)*
- *Chemical Industry & Chemical Engineering Quarterly (SRB)*
- *Chemical Papers (SL)*
- *European Journal of Lipid Science and Technology (DE)*
- *Energy and Fuels (USA)*
- *Food Analytical Methods (USA)*
- *Food Chemistry (NL)*
- *Food Research International (CA)*
- *Fuel (NL)*
- *Grasas y Aceites (ES)*
- *Innovative Food Science and Emerging Technologies (NL)*
- *Instrumentation Science & Technology (UK)*
- *International Journal of Environmental Analytical Chemistry (SWI)*
- *International Journal of Food Science and Technology (UK)*
- *Journal of Agricultural Science (USA)*
- *Journal of Agricultural and Food Chemistry (USA)*
- *Journal of Food Science (USA)*
- *Journal of the American Oil Chemists Society (USA)*
- *Journal of Chemical Education (USA)*
- *Journal of Food Engineering (USA)*
- *Journal of Parmaceutical and Biomedical Analysis (NL)*
- *Journal of Photochemistry and Photobiology A: Chemistry (NL)*
- *Journal of Raman Spectroscopy (USA)*
- *Journal of Solution Chemistry (DE)*
- *Journal of the Brazilian Chemical Society (BR)*
- *Journal of the Institute of Science and Technology of Balikesir University (TK)*
- *Journal of Wood Chemistry and Technology (USA)*
- *Luminescence: The Journal of Biological and Chemical Luminescence (UK)*
- *Microchimica Acta (DE)*
- *Molecules (USA)*
- *Press Biochemistry (NL)*
- *Spectroscopy Letters (NL)*
- *Sensors and Actuators: B. Chemical (NL)*
- *Talanta (NL)*
- *Vibrational Spectroscopy (NL)*

Већа цитираност научних резултата

На основу базе података SCOPUS радови професора Georgiou-а су **цитирани 959 пута** у научној литератури, без самоцитата свих коаутора.
Вредност X индекса је 20.

Међународна научну репутацију и то:

- да је био гост-уредник у угледним међународним научним часописима;

Guest Editor: Analytica Chimica Acta (IF 4.71) , Volume 505, issue 1, 3 March 2004.

- да је председавао међународним научним конференцијама;

Enzymes for Lean Green Food Production – A Lean Green Approach, 11-13 June 2013, Chalkidiki, Greece.

3rd Aegean Analytical Chemistry Days, 29 September - 2 October 2002, Polihnitos, Lesvos, Greece.

- да има чланство у уређивачким одборима међународних научних часописа;

Journal of Automated Methods and Management in Chemistry, 2010-
Journal of Agricultural Science, 2010-.

- да је аутор међународне научне монографије;

FOOD AUTHENTICATION: Analysis, Regulation & Consumers, C. A. Georgiou and G. P. Danezis, 320 pages, **Publisher:** Wiley-Blackwell (14 April 2017), **Language:** English, **ISBN-+10:** 1118810260 **ISBN-13:** 978-1118810262.

ЗАКЉУЧЦИ И ПРЕПОРУКЕ КОМИСИЈЕ

На основу изложеног о професору Constantinos-y Georgiou-y, Комисија сматра да је профсор Georgiou остварио значајне резултате у наставном, стручном и научно-истраживачком раду. Наставни, научно-истраживачки и стручни рад професора Georgiou-a је верификован кроз: објављене књиге и радове, високу цитираност публикација, саопштења на међународним конференцијама, сарадњу са реномираним светским институцијама, изведене међународне и националне пројекте, организацију међународних скупова и свакако кроз његов рад са студентима. Професор Georgiou је у протеклом периоду остварио и значајну сарадњу са Технолошко-металуршким факултетом Универзитета у Београду кроз заједничке међународне пројекте и заједничку наставу.

Имајући у виду целокупни досадашњи рад и остварене резултате професора Constantinos-a Georgiou-a, Комисија сматра да професор Georgiou у потпуности испуњава услове Правилника о условима и начину ангажовања гостујућег професора на Универзитету у Београду, и сходно томе предлаже Наставно-научном већу Технолошко-металуршког факултета, већу групације техничких наука и Сенату Универзитета у Београду, да га изаберу за гостујућег професора који би био ангажован на Технолошко-металуршком факултету на предмету докторских студија *Физичко-хемијске основе фармацеутског инжењерства*.

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У Београду, 05.09.2016.

ИМЕ И ПРЕЗИМЕ: Constantinos Georgiou, *Agricultural Univeristy of Athens* (име и презиме и универзитет)	
РАДОВИ У МЕЂУНАРОДНИМ ЧАСОПИСИМА	**1.** *Food Authentication: Techniques, trends & emerging approaches,* G. P. Danezis, A. S. Tsagkaris, F. Camin, V. Brusic, C. A. Georgiou, *Trends in Analytical Chemistry, in press,* **2016.** doi:10.1016/j.trac.2016.02.026 **Chemistry, Analytical (2/75) IF=7.487** 2. *Development of an integrated biorefinery based on fractionation of spent sulphite liquor for the production of an antioxidant - rich extract, lignosulphonates and succinic acid,* M. Alexandri, H. Papapostolou, M. Komaitis, L. Stragier, W. Verstraete, G. P. Danezis, C. A. Georgiou, S. Papanikolaou, A. A. Koutinas, Bioresource Technology, 214, p. 504-513, **2016. Agricultural Engineering (1/14) Biotechnology & Applied Microbiology (17/161) Energy & Fuels (11/88) IF=4.917** **3.** *Data fusion for food authentication: Combining rare earth elements and trace metals to discriminate PDO "Fava Santorinis" from other yellow split peas using chemometric tools,* S. A. Drivelos, K. Higgins, J. H. Kalivas, S. A. Haroutounian, C.A. Georgiou*, Food Chemistry, 165,* 316-322*,* **2014. Chemistry, Applied (7/71) Food Science & Technology (7/124) Nutrition & Dietetics (12/78) IF=4.032** **4.** *Food adulteration analysis without laboratory prepared or determined reference food adulterant values,* J.H. Kalivas, C.A. Georgiou, M. Moira, I. Tsafaras, E.A. Petrakis, G.A. Mousdis, *Food Chemistry, 148,* 289-293, **2014. Chemistry, Applied (7/71) Food Science & Technology (7/124) Nutrition & Dietetics (12/78) IF=4.032** **5.** *Hydrotreating of straight-run gas oil blended with FCC naphtha and light cycle oil ,* Z. Dukanovic, S.B. Glisic, V.J. Cobanina, M. Niciforovic, C.A. Georgiou, A.M. Orlovic, *Fuel Processing Technology, 106, 160-165,* **2013**. **Chemistry, Applied (7/71) Energy & Fuels (19/88) Engineering, Chemical (12/133) IF=3.707** 6. *Sustainable production of pectin from lime peel by high hydrostatic pressure treatment*, M. Naghshineh, K. Olsen and C.A. Georgiou, *Food Chemistry*, *136,* 472-478, **2013. Chemistry, Applied (7/71) Food Science & Technology (7/124) Nutrition & Dietetics (12/78) IF=3.391** *7. A review of multi-element analysis and multi-*

	isotope ratio coupled with chemometric tools for the determination of the geographical origin of food and beverages in the European Union, S. A. Drivelos, C. A. Georgiou, *Trends in Analytical Chemistry, 40,* 38-51, **2012**. **Chemistry, Analytical (2/75) IF=6.351** 8. *Updating a synchronous fluorescence spectroscopic virgin olive oil adulteration calibration to a new geographical region*, M.R. Kunz, J. Ottaway, J.H. Kalivas, C.A. Georgiou, G.A. Mousdis, *Journal of Agricultural and Food Chemistry, 59,* 1051-1057, **2011**. **Agriculture, Multidisciplinary (3/57) Chemistry, Applied (14/71) Food Science & Technology (19/124) IF=2.823** 9. *Iron or zinc dialyzability obtained from a modified in vitro digestion procedure compare well with iron or zinc absorption from meals,* K. Argyri, E. Theophanidi, A. Kapna, C. Staikidou, G. Pounis, M. Komaitis, C. Georgiou, M. Kapsokefalou, *Food Chemistry, 127,*716-721, **2011**. **Chemistry, Applied (7/71) Food Science & Technology (7/124) Nutrition & Dietetics (12/78) IF=3.655** *10.* *Synchronous fluorescence spectroscopy: tool for monitoring thermally stressed edible oils*, K. G. Poulli, N. V. Chantzos, G. N. Mousdis and C. A. Georgiou, *Journal of Agricultural and Food Chemistry, 57,* 8194-201, **2009**. **Agriculture, Multidisciplinary (3/57) Chemistry, Applied (14/71) Food Science & Technology (19/124) IF=2.562** **11.** *Monitoring olive oil oxidation under thermal and uv stress through synchronous fluorescence spectroscopy and classical assays*, K. G. Poulli, G. N. Mousdis and C. A. Georgiou, *Food Chemistry, 117,* 499-503, **2009**. **Chemistry, Applied (7/71) Food Science & Technology (7/124) Nutrition & Dietetics (12/78) IF=3.146** **12.** *High throughput flow injection bioluminometric method for olive oil antioxidant capacity,* A. S. Minioti, C. A. Georgiou, *Food Chemistry*, *109*, 455-461, **2008**. **Chemistry, Applied (7/71) Food Science & Technology (7/124) Nutrition & Dietetics (12/78) IF=3.146** **13.** *Rapid synchronous fluorescence method for virgin olive oil adulteration assessment*, K. G. Poulli, G. N. Mousdis and C. A. Georgiou, *Food Chemistry, 105,* 369-375, **2007**. **Chemistry, Applied (7/71) Food Science & Technology**

	(7/124) Nutrition & Dietetics (12/78) IF=3.052 14. *Rapid, fully automated flow injection antioxidant capacity assay*, E. P. Labrinea and C. A. Georgiou, *Journal of Agricultural and Food Chemistry, 53,* 4341*,* **2005**. **Agriculture, Multidisciplinary (3/57) Chemistry, Applied (14/71) Food Science & Technology (19/124) IF=2.322** **15.** *Early-warning electrochemical biosensor system for environmental monitoring based on enzyme inhibition*, S. Dzyadevych, V. Arkhypova, N. Jaffrezic-Renault, C. Martelet, J. - M. Chovelon, C. A. Georgiou and A. Soldatkin, *Sensors and Actuators, B, 105,* 81*,* **2005**. **Instruments & Instrumentation (1/52) IF=2.646** **16.** *Rapid, non invasive quantitative determination of acyclovir in pharmaceutical solid dosage forms through their PVC-blister package by solid-state FT-Raman spectroscopy,* S. G. Skoulika and C. A. Georgiou, *Applied Spectroscopy, 57,* 407, **2003**. **Instruments & Instrumentation (3/48) Spectroscopy (12/41) IF=1.717** **17.** *Univariate and multivariate calibration for the quantitative determination of methyl-parathion in pesticide formulations by FT-Raman spectroscopy,* S. G. Skoulika and C. A. Georgiou, *Applied Spectroscopy*, *54,* 747, **2000**. **Instruments & Instrumentation (1/52) Spectroscopy (11/37) IF=1.948** **18.** *Rapid quantitative determination of ciprofloxacin in pharmaceuticals using solid-state FT-Raman spectroscopy,* S. G. Skoulika and C. A. Georgiou, *Applied Spectroscopy*, *55*, 1259-1265, **2001**. **Instruments & Instrumentation (1/48) Spectroscopy (14/40) IF=1.752** **19.** *Quantitative determination of fenthion in pesticide formulations by FT-Raman spectroscopy*, S. G. Skoulika, C. A. Georgiou and M. G. Polissiou, *Applied Spectroscopy, 53*, 1470, **1999**. **Instruments & Instrumentation (1/52) Spectroscopy (11/34) IF=2.084** 20. *Analytical chemistry in the European Union during 1993-1999: an appraisal on the basis of papers abstracted in analytical abstracts,* C. A. Georgiou and N. S. Thomaidis, *Trends in Analytical Chemistry, 20,* 462*,* **2001**. **Chemistry, Analytical (3/68) IF=4.260** **21.** *Automated flow injection gradient technique for binding studies of micromolecules to proteins using potentiometric sensors: application to*

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- Fuel (NL)
- Grasas y Aceites (ES)
- Innovative Food Science and Emerging Technologies (NL)
- Instrumentation Science & Technology (UK)
- International Journal of Environmental Analytical Chemistry (SWI)
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- Journal of Chemical Education (USA)
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- Press Biochemistry (NL)
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<tr><td colspan="2">ЦИТИРАНОСТ НАУЧНИХ РЕЗУЛТАТА</td><td>Дана 05.09.2016. године цитираност без аутоцитата свих коаутора: 959 (Scopus)
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<tr><td rowspan="3">МЕЂУНАРОДНА РЕПУТАЦИЈА</td><td>ГОСТ УРЕДНИК МЕЂУНАРОДНОГ ЧАСОПИСА</td><td>Guest Editor: Analytica Chimica Acta (IF 4.71) , Volume 505, issue 1, 3 March 2004</td></tr>
<tr><td>ПРЕДСЕДАВАО МЕЂУНАРОДНИМ НАУЧНИМ КОНФЕРЕНЦИЈАМА</td><td>Enzymes for Lean Green Food Production – A Lean Green Approach, 11-13 June 2013, Chalkidiki, Greece.

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<tr><td>ЧЛАНСТВО У УРЕЂИВАЧКИМ ОДБОРИМА МЕЂУНАРОДНИХ НАУЧНИХ ЧАСОПИСА</td><td>Journal of Automated Methods and Management in Chemistry, 2010-

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	АУТОР МЕЂУНАРОДНЕ МОНОГРАФИЈЕ	*FOOD AUTHENTICATION: Analysis, Regulation & Consumers*, C. A. Georgiou and G. P. Danezis, 320 pages, **Publisher:** Wiley-Blackwell (14 April 2017), **Language:** English, **ISBN-+10:** 1118810260 **ISBN-13:** 978-1118810262
НАПОМЕНА		На основу изложеног о професору Constantinos-y Georgiou-y, Комисија сматра да је професор Georgiou остварио значајне резултате у наставном, стручном и научно-истраживачком раду. Наставни, научно-истраживачки и стручни рад професора Georgiou-a је верификован кроз: објављене књиге и радове, високу цитираност публикација, саопштења на међународним конференцијама, сарадњу са реномираним светским институцијама, изведене међународне и националне пројекте, организацију међународних скупова и свакако кроз његов рад са студентима. Професор Georgiou је у протеклом периоду остварио и значајну сарадњу са Технолошко-металуршким факултетом Универзитета у Београду кроз заједничке међународне пројекте (FP7 REGPOT NANOTECH FTM) и заједничку наставу. Имајући у виду целокупни досадашњи рад и остварене резултате професора Constantinos-a Georgiou-a, Комисија сматра да професор Georgiou у потпуности испуњава услове Правилника о условима и начину ангажовања гостујућег професора на Универзитету у Београду, и сходно томе предлаже Наставно-научном већу Технолошко-металуршког факултета, већу групације техничких наука и Сенату Универзитета у Београду, да га изаберу за гостујућег професора који би био ангажован на Технолошко-металуршком факултету на предмету докторских студија *Физичко-хемијске основе фармацеутског инжењерства*.