The 4-th Annual Symposium of the Department of Physical and Analytical Chemistry at Iv. Javakhishvili Tbilisi State University, December 29-30, 2014, Tbilisi, Georgia

(Dedicated to the 80-th Anniversary of Physical Chemistry Department/Chair at Tbilisi State University)

December 29, 2014

10.00-10.05	Opening of the symposium
10.05-10.15	Welcome address by the rector of Tbilisi State University, Academician Vladimer Papava
10.15-11.00	Salvatore Fanali
	More than twenty years of chiral separations by using miniaturized techniques
11.00-11.45	Sibel Ozkan
	Method validation in pharmaceutical and biomedical analysis
11.45-12.30	Alessandro Volonterio
	Multifunctional aminoglycoside-based gene delivery vectors: synthesis and transfection efficiency
12.30-13.00	V. Barbakadze, M. Merlani,, L. Gogilashvili, L. Amiranashvili, K. Mulkijanyan
	Biomacromolecule from medicinal plants with anticancer activity
13.00-13.30	M. Merlani, T. Nakano, Y. Koyama, V. Barbakadze, B. Chankvetadze
	Synthesis of poly[oxy-1-methoxycarbonyl-2-(3,4-dimethoxyphenyl)ethylene]
13.30-14.00	Giorgi Jibuti
	Application of core-shell silica-based chiral stationary phases for separation of enantiomers in high-performance liquid chromatography
14.00-14.30	Symposium Photos
14.30-15.30	Lunch Brake
15.30-15.50	PhD student Rusudan Kakava

Synthesis of chiral sulfoxides and their enantioseparation in high-performance liquid chromatography

15.50-16.10 PhD student Mehmet Gumustas

Separation of enantiomers of chiral beta-agonists in capillary electrophoresis and high-performance liquid chromatography

16.10-16.25 BS student Mari-Luisa Konjaria

Separation of enantiomers of chiral sulphoxides with chloro-substituted trisphenylcarbamates of cellulose as chiral selectors in high-performance liquid chromatography

16.25-16.40 BS student Tamar Khatiashvili

Looking for highest possible selectivity of enantioseparations in high-performance liquid chromatography

16.40-16.55 BS student Anna Gogolashvili

Separation of enantiomers of selected antimycotic drugs in capillary electrophoresis

16.55-17.30 Bezhan Chankvetadze

Department of Physical and Analytical Chemistry and Institute of Physical and Analytical Chemistry in 2014

18.00-20.00 Symposium Dinner

December 30, 2014

09.00-09.30 Prof. Shota Sidamonidze

The history of the Physical Chemistry Department/Chair at Tbilisi State University

09.30-10.00 Prof. Armaz Shalashvili

Georgian (Kakhetian) wine as a functional food

10.00-10.30 Prof. Marina Rukhadze

Study of structural changes of water confined in reverse micelles

10.30-10.50 Prof. Giorgi Bezarashvili

The kinetics of tri-isobutylarsenite transesterification in presence of decane

10.50-11.10 Prof. Djumber Kereselidze

Traditional and non-traditional proton transfer mechanisms in chemical and biochemical reactions

11.10-11.25 Eka Tsutsqiridze

HPLC determination of polyphenols in wines and parts of cluster of autochthonous Georgian white grapes

11.25-11.40 Nino Beridze

HPLC determination of polyphenols in wines and parts of cluster of autochthonous Georgian red grapes

11.40-12.00 PhD student Natia Mzareulishvili

Study of microenvironment of Brij-30 reverse micelles by UV-VIS spectroscopic method on the basis of methyl orange as optical probe

12.00-12.20 PhD student Tamar Makharadze

The determination of dissociation constants of fulvic acids isolated from atmospheric precipitations (sediments)

12.20-12.40 PhD student Khatuna Gogaladze

Enantioseparation of selected chiral basic drugs with polysaccharide-based chiral selectors and polar-organic mobile phases in high-performance liquid chromatography

12.40-13.00 PhD student Manoni Kurtanidze

Investigation of water droplets structure in ionic and nonionic reverse micelles by UV-VIS spectroscopy

13.00-13.20 PhD student Nino Ghibradze

Enantioseparation of FMOC amino acids with polysaccharide-based chiral stationary phases and normal-phase eluents in high-performance liquid chromatography

13.20-13.40 PhD student Tinatin Butkhuzi

Investigation of influence of ionic additives on the structure of water droplets of reverse micelles by IR and NMR spectroscopy

13.40-14.40 Lunch

14.40-14.55 BS student Elene Sordia

Enantioseparation of chiral dihydropyridine derivatives with polysaccharide-based chiral stationary phases and normal-phase eluents in high-performance liquid chromatography

14.55-15.10 BS student Lia Bezhitashvili

Separation of enantiomers of flavanone with novel core-shell-type polysaccharide-based chiral stationary phase in high-performance liquid chromatography

15.10-15.25 BS student Tina Elbaqidze

Enantioseparation of selected chiral weak acids (propionic acids, barbiturates) with polysaccharide-based chiral stationary phases and normal-phase eluents in high-performance liquid chromatography

15.25-15.40 BS student Teona Ordjonikidze (Benzoin)

Separation of enantiomers of benzoin with novel core-shell-type polysaccharidebased chiral stationary phase in high-performance liquid chromatography

15.40-15.55 BS student Nino Zagashvili

Enantioseparation of selected chiral basic drugs with polysaccharide-based chiral selectors and normal-phase eluents in high-performance liquid chromatography

15.55-16.10 BS student Natia Shashviashvili

Separation of enantiomers of chiral sulphoxides with methyl- and chloro-methylsubstituted tris-phenylcarbamates of cellulose as chiral selectors in high-performance liquid chromatography

16.10-16.25 BS student Anna Bardavelidze

Separation of enantiomers of *trans*-stilbene oxide with novel core-shell-type polysaccharide-based chiral stationary phase in high-performance liquid chromatography

16.25-16.40 BS student Levan Skhirtladze

The effect of various additives on enantioseparation of selected antimycotic drugs on polysaccharide-based chiral stationary phases in HPLC with acetonitrile as a mobile phase

16.40-16.55 BS student Natia Mushkudiani

Enantioseparation of selected chiral weak acids (mandelic acid derivatives, coumarins) with polysaccharide-based chiral stationary phases and normal-phase eluents in high-performance liquid chromatography

16.55-17.10 BS student Tatia Qistauri

The effect of various additives on enantioseparation of selected antimycotic drugs on polysaccharide-based chiral stationary phases in HPLC with methanol as a mobile phase

17.10 Symposium closing