Biographical Sketch

Name: Alaa Rashid Helmy Rashid Abd El Hamid **Title: Lecturer**

Nationality: Egyptian
Date of birth: 06th of November, 1980
Marital status: Single
Current Position: Lecturer, Department of Chemistry, Faculty of Science, Zagazig University .

Email : Alaasakr81@yahoo.com **Mobile** : 00201000067520

1. Educations:

Institution and location	Degree awarded	Year(s)	Field of study
Zagazig university , Zagazig , Egypt	B.Sc.	2001	Chemistry
Zagazig university , Zagazig , Egypt	M.Sc.	2006	Organic Chemistry
University of Chemical Technology , Sofia , Bulgaria	Ph.D	2013-2016	Organic Chemistry
University of Chemical Technology , Sofia , Bulgaria	Postdoctoral	2016	Organic Chemistry

Title of Master's thesis: Studies on The Chemical Behavior of some Pyrazole derivatives .

Title of Doctorate Dissertation: Synthesis of novel Chemosensing Multichromophoric Systems Based on Perylenediimide and 1, 8-Naphthalimide.

2. Positions:

Position	period	location and university
Lecturer	2013 till now	Zagazig university
Assistant lecturer	2006-2013	Zagazig university
Demonstrator	2001-2006	Zagazig university
Postdoctoral	2016	UCTM , Sofia , Bulgaria

LIST OF PUBLICATIONS

1. Scientific publications

- N. Georgiev, A. Sakr, V. Bojinov. **Design and synthesis of novel fluorescence sensing perylene diimides based on photoinduced electron transfer**. *Dyes Pigm.* **91** (3), 332-339 (2011). (**Импакт фактор* 3.966**)
- N. Georgiev, A. Sakr, V. Bojinov. **Design and synthesis of a novel PET and ICT based 1,8-naphthalimide FRET bichromophore as a four-input Disabled-Enabled-OR logic gate**. *Sensors Actuators B: Chemical* **221**, 625-634 (2015). (**Импакт фактор* 4.097**)

***** Impact Factor 2014, ISI Journal Citation Report 2015

2. Participation in scientific forums

- A. Sakr, N. Georgiev, V. Bojinov. **A novel well soluble perylene diimide as pH chemosensor based on photoinduced electron transfer**. *VII Scientific Poster Session of UCTM*, May 20, Sofia, 2010.
- B. Alexandrova, D. Dimitrova, A. Sakr, N. Georgiev, V. Bojinov. **Design and synthesis of novel XOR molecular logic gates based on dihydroimidazonaphthalimide unit**. *X Scientific Poster Session of UCTM*, May 17, Sofia, 2013.
- A. Sakr, N. Georgiev, V. Bojinov. **Design and synthesis of novel 1,8-naphthalimide-based bichromophoric system**. *XI Scientific Poster Session of UCTM*, May 22, Sofia, 2014.
- A. Sarafska, V. Borisova, N. Georgiev, A. Sakr, V. Bojinov. **Design and synthesis of a novel 1,8-naphthalimide bichromophore as a multilevel logic device**. *XII Scientific Poster Session of UCTM*, May 22, Sofia, 2015.

europass Bulgaria

EUROPASS DIPLOMA SUPPLEMENT

UNIVERSITY OF CHEMICAL TECHNOLOGY AND METALLURGY

SOFIA

1. INFORMATION IDENTIFYING THE HOLDER OF THE QUALIFICATION

	Last name		First name
1.1	SAKR	1.2	ALAA RASHEED HELMY RASHEED ABDELHAMID
	Date of birth (dd/mm/yyyy)		Student identification personal numbers
1.3	06 November 1980	1.4	State PIN 28011061302015 Student`s personal code MX9029

2. INFORMATION IDENTIFYING THE QUALIFICATION

	Name of qualification *(in Bulgarian language)*		Main field of study for the qualification
2.1	ХИМИК	2.2	National Classifier: code 5.10. CHEMICAL TECHNOLOGIES ISCED 1997: code 524. CHEMICAL PRODUCTS AND TECHNOLOGIES code 524 035. FINE ORGANIC SYNTHESIS
	Name and status of awarding institution *(in Bulgarian language)*		
2.3	ХИМИКОТЕХНОЛОГИЧЕН И МЕТАЛУРГИЧЕН УНИВЕРСИТЕТ — София *www.uctm.edu* University, State Institution, State recognised, Institutional Accreditation granted by the NATIONAL EVALUATION and ACCREDITATION AGENCY *www.neaa.government.bg*		
	Name of institution administering studies *(in Bulgarian language)*		Language of instruction / examination
2.4	ФАКУЛТЕТ ПО ХИМИЧНИ ТЕХНОЛОГИИ	2.5	English

3. INFORMATION ON THE LEVEL OF THE QUALIFICATION

	Level of qualification		Official length of programme
3.1	MASTER OF SCIENCE IN FINE ORGANIC SYNTHESIS ISCED 1997: code 5A	3.2	One Academic Year Full – Time Study
	Access requirements		
3.3	A Diploma for Bachelor's Degree from University Further details: *www.uctm.edu*		

4. INFORMATION ON THE CONTENTS AND RESULTS GAINED

	Mode of study		Programme requirements
4.1	Full – time	4.2	The programme corresponds to the Bulgarian Higher Education Act and the Ordinance on the State Requirements for Acquiring Higher Education. *(Decrees No.162 / 23.07.2002 of the Council of Ministers of Republic of BULGARIA)* *www.mon.bg* *Rules and Regulations of the* University *www.uctm.edu*

Explanatory note

This Diploma Supplement model was developed by the European Commission, Council of Europe and Unesco/CEPES. The purpose of the supplement is to provide sufficient independent data to improve the international 'transparency' and fair academic and professional recognition of qualifications (diplomas, degrees, certificates etc.). It is designed to provide a description of the nature, level, context, content and status of the studies that were pursued and successfully completed by the individual named on the original qualification to which this supplement is appended. It should be free from any value judgements, equivalence statements or suggestions about recognition. Information in all eight sections should be provided. Where information is not provided, an explanation should give the reason why.

More information on Europass: http://europass.cedefop.europa.eu

4.3 Programme details and the individual grades / marks / credits obtained

№	CODE	COURSE UNITS	DURATION	TEACHING HOURS	NATIONAL GRADES		ECTS GRADES	ECTS CREDITS
1.	m646	Heterocyclic Chemistry	1S	70	Very good	5.00	B	7
2.	m623	Reaction Mechanism	1S	70	Very Good	5.00	B	7
3.	m581	Spectroscopic Techniques	1S	60	Good	4.00	C	6
4.	m717	Instrumental Analysis	1S	45	Very Good	5.00	B	5
5.	m826	Photochemistry	1S	45	Very Good	5.00	B	5
6.	m401	Fine Organic Synthesis	1S	60	Very good	5.00	B	6
7.	m505	New Trends in Organic Synthesis	1S	50	Excellent	6.00	A	5
8.	m143	Luminophores	1S	70	Excellent	6.00	A	7
9.	m213	High Technology Applications of Organic Compounds	1S	60	Excellent	6.00	A	6
10.	m136	Selected Research Practice (research project)	1S	70	Excellent	6.00	A	7
11.	m012	UV Absorbers and Antioxidants	1S	30	Excellent	6.00	A	3
12.	m036	Colour and Constitution Relationship	1S	30	Excellent	6.00	A	3
13.	m1022	Industrial practice - specialization	1S		Excellent	6.00	A	30
		Research and industrial training – 4 weeks						8
		OVERALL AVERAGE:		**660**	**Very good**	**5.46**	**B**	**105**
		PREPARATION AND DEFENCE OF DIPLOMA THESIS						
		DESIGN AND SYNTHESIS OF NOVEL PAMAM SENSORS AND LIGHT HARVEST ANTENNA BASED ON PERYLENE DIIMIDE CORE		—	Very good	5.75	A	15
		TUTOR — Prof. D.Sc. Eng. Vladimir BOJINOV						
		OVERALL AWARD AVERAGE:		**660**	**EXCELLENT**	**5.61**	**A**	**120**

4.4 Grading scheme and grade distribution guidance

NATIONAL GRADE		ECTS GRADE
Excellent	5.50 ÷ 6.00	A
Very good	4.50 ÷ 5.49	B
Good	3.50 ÷ 4.49	C
Fair	3.00 ÷ 3.49	D
Fail	2.00	F

4.5 Overall classification of the qualification

N / A

5. INFORMATION ON THE FUNCTION OF THE QUALIFICATION

	Access to further study		Professional status
5.1	Access to the Third Degree (Doctor's Degree)	5.2	Graduates from specialty FINE ORGANIC SYNTHESIS can find realization in production-technological, organization-managing and designing activity in all branches of national economy, where synthetic transformations are fulfilled including biologically-active compounds, dyes and fluorophores, photostabilizers, antioxidants, aroma and surface-active substances, as well as organic products in high technologies.

6. ADDITIONAL INFORMATION

	Additional information		Further information sources
6.1	The University, as one of the leaders in international academic students' exchange, takes part in European programs SOCRATES, LEONARDO DA VINCI, CEEPUS, GRUNDVIK. That gives its students the possibility to study for a short or long time, to have practical works, or to do their diploma in European Universities.	6.2	Faculty Europass Co–ordinator Assoc. Prof. Dr. Plamen KIRILOV Tel.: +359 2 81 63 249 Fax: +359 2 868 54 88 E-mail: *p_kirilov@uctm.edu* Human Resource Development Centre *www.hrdc.bg* Europass National Centre E-mail: *europass@hrdc.bg*

7. CERTIFICATION OF THE SUPPLEMENT

	Date			Signature
7.1	10	August	2010	7.2 1. ..... 2. .....

	Capacity		Official stamp
7.3	1. Prof. Dr. Rossica BETCHEVA Dean DEPARTMENT OF INTERNATIONAL ACADEMIC MOBILITY AND EDUCATION 2. Assoc. Prof. Dr. Boris STEFANOV Rector UNIVERSITY OF CHEMICAL TECHNOLOGY AND METALLURGY SOFIA	7.4	ХИМИКОТЕХНОЛОГИЧЕН И МЕТАЛУРГИЧЕН УНИВЕРСИТЕТ РЕПУБЛИКА БЪЛГАРИЯ СОФИЯ

8. INFORMATION ON THE BULGARIAN HIGHER EDUCATION SYSTEM

(prepared by the National ENIC / NARIC center of the Ministry of Education and Science)

Holders of diplomas of completed secondary education have the rights to continue their studies without restrictions as to the type of the higher school. Admission to higher school is based on successfully passed entrance examinations. The type and the number of these examinations are defined by the higher schools and are closely related to their profile.
The requirements for student admission, depending on the type of the higher school and the given speciality, comprise written competitive examinations (one or more), tests (with different volume and structure) and a diploma of completed secondary education. The autonomy of the higher schools gives them the rights to define on annual basis the admission requirements. The admission procedure for each speciality is defined on annual basis and made public in the Guide of respective higher school.

The system of higher education provides training after completed secondary education and comprises the following degrees:

8.1. BACHELOR'S EDUCATIONAL AND QUALIFICATION DEGREE. According to the curriculum the acquisition of that degree requires:

a) minimum 180 credits with a duration of the studies of at least three years leading to the Professional Bachelor in...degree;

b) minimum 240 credits with a duration of at least four years leading to the Bachelor's degree.

8.2 MASTER'S EDUCATIONAL AND QUALIFICATION DEGREE. The requirements for the acquisition are as follows:

a) minimum 300 credits according to the curriculum with a duration of the studies of at least five years;

b) minimum 120 credits for holders of Professional Bachelor in ... degree

c) minimum 60 credits for holders of Bachelor's degree.

Colleges organize training for the acquisition of the Professional Bachelor in ... educational and qualification degree that provides specialized vocational training in the respective professional sectors and specialities.

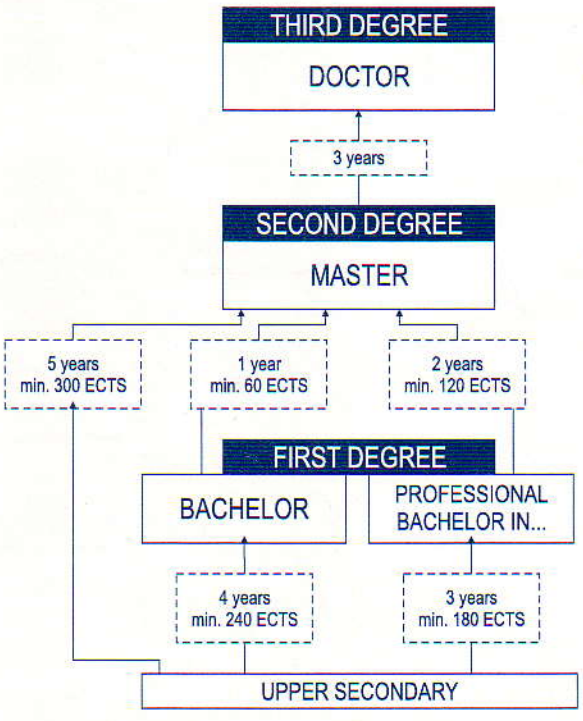
Holders of the Professional Bachelor in ... educational and qualification degree can continue their training for the Master's educational and qualification degree only in the same professional sector in compliance with the terms and conditions laid down in the Rules of the higher school or in the State Requirements.

Studies for Bachelor's degree organized in complains with the curriculum provide multi – profiled training or specialized vocational training in professional sectors and specialities. Studies for Master's degree provide profound fundamental training combined with profile – oriented training within a given speciality.

8.3. STUDIES FOR DOCTOR'S EDUCATIONAL AND SCIENTIFIC DEGREE are carried out in scientific specialities.

Diplomas for completed degree are issued upon the successful completion of all duties included in the curriculum, irrespective of the calendar duration of studies."

DIAGRAM OF THE HIGHER EDUCATION SYSTEM IN THE REPUBLIC OF BULGARIA



LOCATION OF BULGARIAN HIGHER EDUCATION INSTITUTIONS



UNIVERSITY OF CHEMICAL TECHNOLOGY AND METALLURGY

SOFIA, BULGARIA

FACULTY OF CHEMICAL TECHNOLOGIES

THE EDUCATIONAL AND SCIENTIFIC DEGREE

DOCTOR OF PHILOSOPHY

IN TECHNOLOGY OF FINE ORGANIC AND BIOCHEMICAL SYNTHESIS

HAS BEEN CONFERRED TO

ALAA RASHEED HELMY RASHEED ABDELHAMID SAKR

BORN ON NOVEMBER 6, 1980 IN ZAGAZIG, EL-SHARKIA, ARAB REPUBLIC OF EGYPT,

FOR HIS THESIS ENTITLED:

▪ SYNTHESIS OF NOVEL CHEMOSENSING MULTICHROMOPHORIC SYSTEMS BASED ON PERYLENEDIIMIDE AND 1,8-NAPHTHALIMIDE ▪

PRESENTED ON MARCH SEVENTH, TWO THOUSAND SIXTEEN

PROF. MITKO GEORGIEV, PHD
RECTOR

[COAT-OF-ARMS SIGNET]

PROF. DSC. SANCHI NENKOVA
DEAN OF THE FACULTY
OF CHEMICAL TECHNOLOGIES

DIPLOMA № 0128
ISSUED ON MARCH 9, 2016

PROF. ROSSICA BETCHEVA, PHD
CHAIR OF THE SCIENTIFIC JURY

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(Convention de La Haye du 5 octobre 1961)

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التاريخ 21/03/16 . القنصل العام

UNIVERSITY OF CHEMICAL TECHNOLOGY AND METALLURGY

Outgoing number .....

Sofia .....

To whom it may concern.

I am happy to write a letter of recommendation for Alaa Sakr who was student in University of Chemical Technology and Metallurgy - Sofia, Bulgaria (Organic Synthesis department, Faculty of Chemical Technology) during the period from 1st September 2009 to 30 august 2010 under my supervision in the collection research data and lab. practice. Mr. Alaa took the classroom version of Principles of fluorescent dyes (design and synthesis of light harvesting antennae based on perylenedimide core). Based on his performance in the course, I feel he would be a good teacher in the future in this point of research.

Alaa was one of the most dedicated of my students. He always came prepared to lab, asked good questions, and frequently volunteered to present his work. Many epidemiologic concepts are not straightforward, and it was evident that Alaa put a great deal of effort and time into learning the material. He was one of the hardest working students and would often email me with questions. His lab group benefited immensely from his inquisitive style. He also made a concerted effort to synthesize information outside of class. On a number of occasions he brought additional material to the attention of the instructor and students. He would make an intelligent, energetic and hard-working during Erasmus Mundus scholarships program.

Sincerely,

ФАКУЛТЕТ ПО ХИМИЧНИ ТЕХНОЛОГИИ

Prof. DSc. Dr. Vladimir Bojinov
Professor of Organic synthesis
Dean of Faculty of Chemical Technology
University of Chemical Technology and Metallurgy Sofia, Bulgaria
Email:vlbojin@uctm.edu

Dipartimento di Chimica e Tecnologie del Farmaco

Professor Bruno Botta

Piazzale Aldo Moro, 5
00185 Rome (Italy)
Tel.: +39 06 49912781
Fax: +39 06 49912780
E-mail: bruno.botta@uniroma1.it

To whom it may concern

The purpose of this letter is to provide my happiness to accept Alaa Rasheed Helmy Rasheed Sakr, Who was born in Egypt in 06.11.1980 , passport No. A16130027 and has Ph.D from Sofia (Bulgaria) University of Chemical Technology and Metallurgy Department of organic Synthesis, as Erasmus Mundus staff , in my group from the period 01.09.2016 to 01.03.2017 . He will be involved in a number of challenging projects ranging from synthetic chemistry of natural products to artificial receptors to be exploited both in drug delivery and host-guest studies. During his stay in my laboratories, He will become familiar with many analytical facilities such as HPLC, UV-vis, NMR, ESI-MS and FT-IR besides learning the use of the most sophisticate apparatus normally applied in modern synthesis.

I will be able to provide all the expenses relative to chemicals, research equipments and laboratory facilities, but my grants will not allow me to cover any scholarship and salary.

Rome, March, 13, 2016

Sincerely yours,
Bruno Botta

LUND
UNIVERSITY

Center for Chemistry and Chemical Engineering
Dept of Pure and Applied Biochemistry

Letter of Acceptance to the PhD Program

We accepted *Mr. Alaa Rasheed Helmy Rasheed Abd El Hamid Sakr.* to be a PhD student at department of pure &applied biochemistry, Faculty of engineering, Lund University after examining his documents, personal details, and background we recommended him in the PhD program start at 1 march 2010.

The future research covers the expertise of the following University units: the Department of pure &applied biochemistry, Chemistry Center at Lund University at Sweden.

This program is mainly in the field of pure & Applied Biochemistry and may last for an average of about 3-4 years, according to the local jurisdiction requirements. The proposed PhD thesis title is:

"Nanoparticles used in Analytical Chemistry."

As I understand, Mr. Alaa should apply for the next call to Erasmus Munds program so that they can fund him for PhD thesis development. It is the responsibility of Mr. Alaa to follow the call and apply in the proper time with all necessary documents to get the support of Erasmus Munds.

We had many discussions about his proposal. The proposal is good one and I expect him to achieve the final target of his PhD program.

Staffan Nilsson, Professor *miniaturised analytical systems*

Lund 2009-12-20

Center for Chemistry and Chemical Engineering

Postal address: P.O. Box 124, SE-221 00 LUND, SwedenVisiting address: Getingevägen 60
Telephone: + 46 46222 8177 Telefax + 46 46222 46 11

Dept of Pure and Applied Biochemistry

ELSEVIER

ScienceDirect

THIS CERTIFIES THAT

ALAA RASHID HELMY RASHID SAKR

DESIGN AND SYNTHESIS OF NOVEL FLUORESCENCE SENSING PERYLENE DIIMIDES BASED ON PHOTOINDUCED ELECTRON TRANSFER

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