

REGISTRATION FORM

1. Name: _____
2. Designation: _____
3. Qualification: _____
4. Institution: _____
5. Professional Experience: _____
6. Address for Correspondence with email &
Phone No: _____

DECLARATION

The information provided is true to the best of my knowledge. If selected, I agree to abide by the rules and regulations of the programme.

Place:

Date: _____ Signature of the Applicant

Registration Fee: (i) For Students- Rs.200
(ii) For Faculty – Rs. 600

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Siddhartha Academy of General
& Technical Education (SAGTE), Vijayawada.

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A.G & S.G. Siddhartha Degree College

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Sri. Dr.D.Balakrishna, Principal,
A.G & S.G. Siddhartha Degree College

Organising Secretary (STCM 2020)

Smt. A. Indira
H.O.D of Chemistry

Convenor (STCM 2020)

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Sri J. Nageswara Rao (Advisor)

Rtd. H.O.D. of Chemistry

Sri K.Ramesh, Lecturer in Chemistry

Smt. M.V.Santhi, Lecturer in Chemistry

Sri G.Ramesh, Lecturer in Chemistry

Sri.P.Suresh, Lecturer in Chemistry

Ms.M.Santhi, Lecturer in Chemistry

Sri V.N.V. Kishore, Lecturer in Chemistry

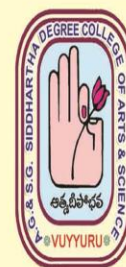
Smt. Dilshad Begum, Lecturer in Chemistry

Ms. M. Rekha, Lecturer in Chemistry

TWO DAY NATIONAL WORKSHOP ON "SEPARATION TECHNIQUES BY CHROMATOGRAPHIC METHODS" (STCM 2020)

3rd & 4th January 2020

Sponsored by UGC (Autonomous Grants)



Organized by the Department of Chemistry
(U.G & P.G)

**A.G. & S.G. Siddhartha Degree College of
Arts & Science (Autonomous) -Vuyyuru**
(Accredited at "A" Grade by NAAC)



(MIKHAIL TSVET)

"Education is
process of
transformation of an
innocent, dependent,
individual into an
intelligent,
independent,
intellectual"

ABOUT THE INSTITUTION

A.G & S.G. Siddhartha Degree College is located at Vuyyuru, 25 km from Vijayawada and is spread over 14 acres of lush green land scape spotted with orchards and groves. At A.G & S.G. Siddhartha College, the focus is on well-balanced approach to industry-oriented academics where the most sophisticated infrastructure is supported by a dedicated team of well qualified and experienced faculty. There is good number of pressuring Ph.Ds among the staff, all working with dedication and rendering service to secure creditable results. The management too is actively involved in every aspect of the student's progress and career.

The CSS and Placement department is full-fledged headed by a true Professional and full time faculty imparting soft skills. The College is aiming to achieve 100% placement this academic year. It has tied up with several public sector and Multinational Companies.

All laboratories are equipped with state of the art facilities. The library has over 20126 books spanning 3000 titles, over 100 journals and magazines with full-fledged digital library. Lot of research is going on in all the departments in the college.

The college was accredited at "A" Grade by NAAC.

ABOUT THE DEPARTMENT

The Department of Chemistry was started in the year 1975. A.G & S.G. Siddhartha College offers an Undergraduate Programmes & 2009 we started M.Sc Organic Chemistry. The Department has well qualified faculty and good laboratory facilities. All the laboratories are well equipped with state of the art experimental sets, both in quality and quantity, which brings the number of Students two per batch.

ABOUT THE WORKSHOP

Chromatography plays an important role in many pharmaceutical industries and also in the chemical and food industry. More than 60% of chemical analysis all over the world is done with chromatography or a variation thereon. It is a physical technique applied from basic organic chemistry to Forensic sciences. Some common applications include detection of cocaine in urine, PCB's in fish, alcohol in blood, and lead in water. The other applications of chromatography especially HPLC is used in Protein Separation like Insulin Purification, Plasma Fractionation. These separation techniques like chromatography gain importance in different kinds of companies, different departments like Fuel Industry, biotechnology, biochemical processes, and forensic science.

The workshop provides a platform to detail the research works of analytical expertise from various scientific backgrounds and the same can be perceived by young researchers and students. The workshop will have lectures on various types of Chromatography techniques. A live demonstration of important analytical techniques on PC, TLC, CC, HPLC and ion chromatography will be conducted.

THE WORKSHOP WILL FOCUS ON

- ❖ Basic principles of CHROMATOGRAPHY
- ❖ Paper Chromatography
- ❖ Thin layer Chromatography
- ❖ Column chromatography
- ❖ Gas chromatography
- ❖ High performance liquid Chromatography

HOW TO REACH VUYURU?

Vuyyuru is well connected by road, rail and Air. It is well connected to the rest of the country by National Highways. Vijayawada Railway Junction is the largest railway junction on the south central railway network. It is also well connected by Air. The domestic Airport is at GANNAVARAM, about 25km from the Workshop venue, connects Vijayawada to Hyderabad, Bangalore, Chennai, and New Delhi. Workshop venue is located about 25km from Vijayawada Railway Station and Vijayawada A.P.S.R.T.C. Bus Stand. RTC Buses are available from Railway Station to reach the Workshop Venue.

VENUE

Seminar Hall
A.G&S.G. Siddhartha Degree College of Arts & Science (Autonomous) -Vuyyuru Krishna(Dt),A.P.

ADVISORY COMMITTEE

Prof. M.V. Basaveswara Rao
Dean, Faculty of Sciences,
Krishna University.

Dr.K.Suresh Babu
Scientist, IICT, Hyderabad

Prof.K.Prabhakar Rao,
VignanaUniversity,
Guntur.

Prof.N.V.Subba Naidu,
Department of Chemistry,
S.V.University, Tirupati.

N.T.Rama Rao, Manager, Q.C,
Divis Laboratories Ltd, Vizag.

A.G & S.G. Siddhartha Degree College of Arts & Science (Autonomous)
Vuyyuru, Krishna District, Andhra Pradesh



Two Day National Workshop on
“Separation techniques by Chromatographic Methods-STCM-2020”

On 3rd & 4th January, 2020

Sponsored by UGC
(Under Autonomous Grants)

Organized by
Department of Chemistry



Inauguration	
10:00am	Inviting the guests on to the dais by Sri.K.Ramesh, Lecturer in Chemistry.
10:05am	Prayer Song
10:10am	Lighting the Lamp
10:15am	President's opening remarks by Sri Dr.D.Balakrishna, Principal
10:20am	Address by Special Officer Sri K.Satyanarayana garu.
10:25am	Address by .Dr.K.Venkateswarlu,IQAC Coordinator, ,A.G.& . G .S.D.College
10:30am	Introduction of Workshop by Smt.A,Indira,H O D ,UG Department of chemistry
10:35am	Address by Dr.V.Sreeram ,HOD,PG Department of chemistry
10:40am	Address by Guest of Honour Sri .T.Srihari rao,Convenor, A.G.& . G .S.D.College
10:45am	Address by Chief guest Prof .M.V.Basveswararao,Hon.Secretary APAS,Amaravathi
10:50am	President's Closing Remarks

DAY -I (03-01-2020)

Keynote Address	11.00 am – 11.50 am	<i>Dr. M.Krishna Murthy ,Chief Executive Dean, VarsityEducation Mgmt Ltd, Hyderabad.</i>
Session 1	11.50 am – 1.00 pm	<i>Dr.P.T.S.R.K.Prasad Rao,Lect in P.G Chemistry P.B.Siddhartha College of Arts & Science,Vijayavada.</i>
Lunch Break: 1.00 pm-2.00 pm		
Session 2	2.00 pm - 3.00 pm	<i>Dr.Vijay Saradi, Senior Scientist,IICT,Hyderabad</i>
Tea Break: 3.00-3.20 pm		
Session 3	3.20-4.30 pm	<i>Dr.B.Gopikalyan, Junior technical Officer, MPEDA , QC laboratory, Bhimavaram.</i>

DAY-II (04-01-2020)

Session-IV	10:00am-1:00pm	Live demonstration of HPLC in collaboration with Biotechnical services, Guntur.
Lunch Break: 1.00 pm-2.00 pm		
Session-V	2:00pm-3:00pm	Importance and applications of HPLC

Valedictory function

3:00pm onwards	Chief Guest	Dr.K.KrishnaReddy, Registrar, KrishnaUniversity, Machilipatnam
	Guest of Honour	Prof L.K.Mohanarao, Academic advisor,SAGTE,Vijayavada

**A.G & S.G. Siddhartha Degree College of Arts & Science
(Autonomous)
Vuyyuru, Krishna District, Andhra Pradesh**

**Two Day National Workshop on
“Separation techniques by Chromatographic Methods-STCM-2020”
On 3rd & 4th January, 2020
Sponsored by UGC
(Under Autonomous Grants)**

Brief Report

Andhra Pradesh State Council for Higher Education, Government of Andhra Pradesh has been implementing Choice Based Credit System for the academic year 2019-'20.

In the final year of B.Sc. Undergraduate programme new syllabus were introduced for the first time in the General Elective paper of VI Semester. The syllabus is “Chromatographic techniques” situated under the Unit-IV and V. Most of the staff members do not aware of these theory and practicals. But in the present scenario the students should be given proper training in this content also as the Industry demands them.



Prayer Song by B.Sc students

With these points in the back ground, the department of Chemistry is interested to organize a Two day Workshop and invite the faculty members of Chemistry working in the affiliated colleges of all over India. The participants will be given enough training and confidence so that they will be in turn train the students in their respective under graduate level.

Hence, It is planned to organize a Two day Workshop to the Chemistry teachers working in the affiliated colleges of India.



Lighting the Lamp





Felicitation to keynote speaker

Technical session -I

Dr.P.T.S.R.K.Prasad Rao, Lect in P.G Chemistry P.B.Siddhartha College of Arts & Science,Vijayavada.said that Chromatography is based on the principle where molecules in mixture applied onto the surface or into the solid, and fluid stationary phase (stable phase) is separating from each other while moving with the aid of a mobile phase.

Chromatography is an analytical technique used to separate mixture of chemical substances into its individual compounds. Different types of chromatography are used in lab. e.g. column chromatography, thin-layer chromatography, gas chromatography etc. Fig: Column chromatography.



Lecturer session by Dr.P.T.S.R.K.Prasad Rao

Technical session -II

Dr. Vijay Saradi, Senior Scientist, IICT, Hyderabad said that Chromatography is based on two different principles, Adsorption and Partition. When the stationary phase is in the liquid phase then the separation principle of the partition is followed. But when the stationary phase is the solid phase the separation principle of adsorption is followed.

The term “*chromatography*” is derived from Greek, chroma meaning, “*colour,*” and graphein meaning “*to write.*” In this process, we apply the mixture to be separated on a stationary phase (solid or liquid) and a pure solvent such as water or any gas is allowed to move slowly over the stationary phase, carrying the components separately as per their solubility in the pure solvent.

Applications of Chromatography

In bio analytical chemistry, chromatography is mainly used for the separation, isolation and purification of proteins from complex sample matrices. In cells for example, proteins occur alongside numerous other compounds such as lipids and nucleic acids. In order to be analysed,

these proteins must be separated from all the other cell components. Then the proteins of interest might have to be isolated from other proteins and purified further.

Chromatography is an essential part of almost any protein purification strategy. A number of different chromatographic techniques are used for the purification and analysis of proteins. They can be classified according to the physical principle involved in the separation process. Typical examples include reversed phase chromatography, ion exchange chromatography, affinity chromatography and size exclusion chromatography.



Lecturer session by *Dr. Vijay Saradi*

Technical session -III

Dr.B.Gopikalyan, Junior technical Officer, MPEDA , QC laboratory, Bhimavaram.said that The main differences between TLC and paper chromatography are: The principle behind thin-layer chromatography is based on adsorption. On the other hand, the principle of paper chromatography is based on partition.

The principle of TLC is where mixture components are separated between a fixed stationary phase and a liquid mobile phase by differential affinities between the two phases. The separation is through adsorption.



Lecturer session by Dr.B.Gopikalyan

Technical session -IV

Live demonstration of HPLC in collaboration with Biotechnical services, Guntur. High-performance liquid chromatography (HPLC) is an analytical technique to separate, identify, and quantify components in a mixture. It is the main chromatography technique used in most laboratories worldwide. High Performance Liquid Chromatography (HPLC) is a process of separating components in a liquid mixture. A liquid sample is injected into a stream of solvent (mobile phase) flowing through a column packed with a separation medium (stationary phase).



Live demonstration of HPLC

Valedictory function

The seminar was concluded with the valedictory function. Dr.K.KrishnaReddy, Registrar, KRU Machilipatnam was the chief guest of valedictory function. In his remarks he stressed the dire need of taking up research on such a multidisciplinary subject which has wide range of benefits for the society. This was followed by distribution of certificates to participants. The Unique feature of the seminar of this seminar is attracting many young students and staff members. As nearly as 100 students from different institutions have voluntarily come forward to participate in the seminar, and it was concluded with National Anthem.



Valedictory talk by Dr.K.KrishnaReddy



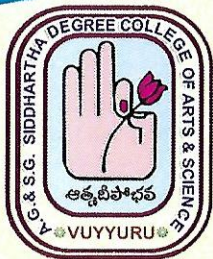


Certificates distribution

We thank the management of Siddhartha Academy of General and Technical Education for the financial support for the workshop. We also thank the teaching and non-teaching staff of our college, print & electronic media. The student volunteers from the department of chemistry made this event successful and I thank them for their co-operation and hard work. I also thank for attending Faculty members of various colleges.



Vote of thanks by Sri.J.Nageswara rao



A.G & S.G SIDDHARTHA DEGREE COLLEGE

Autonomous, Vuyyuru, Krishna (Dt), A.P.

(Accredited at "A" Grade by NAAC)

Two Day National Workshop

on

"SEPARATION TECHNIQUES BY CHROMATOGRAPHIC METHODS (STCM-2020)"

CERTIFICATE



ज्ञान-विज्ञान विमुक्तये

UGC

University Grants Commission

This is to certify that Sri./Smt./Kum./Dr.:

of A.G & S.G Siddhartha College, has participated in the UGC sponsored Two Day National Workshop on *"Separation Techniques by Chromatographic Methods (STCM-2020)"* Organized by the Department of Chemistry on 3rd & 4th January, 2020 at A.G & S.G Siddhartha Degree College, (Accredited at "A" Grade by NAAC), Vuyyuru, Krishna (Dt) A.P.

Smt. A. Indira
Organizing Secretary
(STCM-2020)

Dr. V. Sreeram
Convenor
(STCM-2020)

Dr. D. Bala Krishna
Principal

A.G & S.G. SIDDHARTHA DEGREE COLLEGE VUYURU

DEPARTMENT OF CHEMISTRY

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