Chem Frontier

Issue 1, 2020



Vision of the Department

Integral formation of the students with scientific skills and social responsibilities

Mission

To provide facilities for academic excellence, training in soft and professional skills and job placement.

To enable the students to become agents of social transformation by imparting skills in research.



Editor-in-Chief

Dr. S. Rayappan Assistant Professor & Head

Editor

Dr. M. Amalraj Assistant Professor



PG DEPARTMENT OF CHEMISTRY

Arul Anandar College (Autonomous) (Reaccredited by NAAC at 'A' Grade with a CGPA of 3.66) (DST-FIST Sponsored College)

(Affiliated to Madurai Kamaraj University) Karumathur – 625 514, Madurai District.



From the Editor-in-Chief's Desk...

Greetings to all our Readers,

Arul Anandar College (Autonomous) is celebrating its *Golden Jubilee* (1970-2020) and the **Department of Chemistry** is celebrating its *Ruby Jubilee* (1979-2019). During this twin Jubilation occasion, the Department of Chemistry is extremely happy to release the **First ever Issue of Chemistry Newsletter**. This newsletter highlights the activities of the students and the achievements of faculty during the academic year 2019-2020. It provides a platform for exposing the merits and academic achievements of the faculties and students and also enhances the documentation culture of the Department.

It unleashes a wide spectrum of activities that were organized during the last academic year (2019-20) which was an eventful one on many grounds. We had an array of events like International Conference on Expanding Frontiers in Chemistry which was started in 2001 and has been continued till last year (EFC-2019). Intercollegiate competition CHEMFEST-2K19, Commemoration Day of Dmitri Mendeleev and National Science Day celebrations. Besides, the students participation in various events like Seminars, Conferences, Workshops, Intercollegiate competitions and other extracurricular activities has been highlighted. There's also an alumni section and in future newsletters we would like to include updates from our alumni as well.

I hope you will enjoy reading about what has been happening in the Department as much as we enjoy telling it to you. We are thankful to the faculty and students of the Department of Chemistry for their valuable inputs and special thanks to Dr. M. Amalraj, Editor, for his sincere efforts and larger contribution towards the release of this newsletter. We would appreciate your suggestions and feedback that will help us to improve further. We can be reached at chemistryaac@gmail.com.

Dr. S. Rayappan (Editor-in-Chief)

Milestones of the Department

- UGC Sponsored State and National Level Seminar on "Expanding Frontiers in Chemistry (EFC)" is conducted every year since 2001.
- Intra and Intercollegiate competitions "ChemFest" is conducted every year since 2006.
- Department Alumni Association was established in 2009.
- Orientation for Fresher in Chemistry (OFC) is organized from 2014.
- Dr. N. Savitha Devi received DST Major Innovative Project Rs.18,68,000 in 2014 under Fast Track Young Scientist and Minor Project Rs.2,65,000 from UGC.
- Workshop on NET/SET/GATE (NSGC) in Chemistry for PG students of our college as well as other colleges is conducted since 2015.
- Department was upgraded as **PG Department** in 2017.
- First Fulltime Research scholar registered for Ph.D under the Guidance of Dr. S. Martin in 2019.
- First UGC Sponsored International Conference (EFC-19) was conducted on 13th September 2019.
- National Science day Celebration is celebrated every year since 2018.
- Mendeleev's Memorial Day is celebrated from 2020.
- Releasing Newsletter since 2020

History of the Department				
Name of the department and	Chemistry – 1979			
its year of establishment				
Programmes/ Courses	PUC - 1971			
Offered	B.Sc. Chemistry – 1979			
	M.Sc. Chemistry – 2017			
	COC - 2004			
Participation of the	Non-major Elective courses for all UG courses			
Department in the courses	Allied Chemistry Offered to B.Sc. Mathematics and			
offered by other	B.Sc. Physics			
Departments	COC: Clinical Nutrition & Lab Technology			
Total Number of Faculties	11 (8 are Ph.D. holders & 5 are either			
	NET/SET/GATE qualified and one is pursuing Ph.D.)			
Department Projects	Major - 1 (completed)			
Funded by DST-FIST;	Minor - 1 (completed)			
DBT, ICSSR etc.				
Publications	International – 80 National – 9			
Presentations	International – 26 National – 47			
Infrastructural Facilities	Internet facilities for staff and students: Available			
	Total number of			
	class rooms : 5			
	Class rooms			
	with ICT facility : 1			
	Laboratories : 2			
	Research Laboratory : 1 (DST)			
Future Plan	Progressing towards Research Department			

Best Practices of the Department

- Orientation Program for Fresher (Both UG and PG separately)
- Conducting NET/SET/GATE/JAM coaching classes
- Remedial classes for slow learners
- Industrial visit for final year UG and PG students
- Organizing invited lectures by the subject and research experts
- Celebrating National Science Day
- Conducting Expanding Frontiers in Chemistry EFC- National and International Seminar since 2001
- Conducting intercollegiate and intracollegiate competitions
- Faculty get together
- Open Students feedback About Teachers
- Mendeleev's Birth Day Celebration
- Conducting Eye Camp Arise
- Conducting Medical Camp
- Cycle Rally Dengue Fever Awareness
- Steering Pongal Celebration With Village people
- Encouraging the students to participate in National and International seminars and also intercollegiate competitions
- Conducting meeting for the Alumni

List of Faculty working at the Department

S.No	Name of the Faculty	Designation	Qualification	Joining
1	Dr. S. Rayappan	Assistant Professor & Head	M.Sc., M.Phil., Ph.D.,	2004
2	Rev. Dr. John Pragasam S.J.	Associate Professor (Rtd)	M.Sc., Ph.D. (USA)	2017
3	Dr. N. Savitha Devi	Assistant Professor	M.Sc., Ph.D.,	2012
4	Mr. S. A. Deva Prince	Assistant Professor	M.Sc., M.Sc. (Psy)., M.Ed.,	2013
			M.Phil. (Edu)., NET, GATE	
5	Dr. S. Martin	Assistant Professor	M.Sc., M.Phil., Ph.D., SET	2014
6	Dr. M. Amalraj	Assistant Professor	M.Sc., Ph.D., NET, GATE	2019
7	Mr. K. Ganesan	Assistant Professor (SF)	M.Sc., M.Phil.	2016
8	Dr. M. Easuraja	Assistant Professor (SF)	M.Sc., M.Phil., Ph.D.	2017
9	Dr. K. Jansi Rani	Assistant Professor (SF)	M.Sc., M.Phil., Ph.D., SET	2017
10	Dr. A. John Jeevagan	Assistant Professor (SF)	M.Sc., Ph.D.	2017
11	Mr. M. Murugapandi	Assistant Professor (SF)	M.Sc., M.Phil., B.Ed.,SET.,	2018
			NET., GATE	

Faculty as Resource Persons to Other Institutes

Chemistry faculty extend their service as like BOS members and Question paper setters for other colleges.

- Dr. S. Rayappan was invited as a Board of Studies member at Saraswathi Narayanan College, Madurai in November 2019. He was also setting question paper to Holy cross College Nagercoil, Gobi Arts & Science College, Gobichettipalayam, The American College, Madurai, GTN Arts & Science College, Dindigul, Thanthai Hans Roever College, Perambalur and Nallamuthu Gounder Mahalingam College, Pollachi. He was also invited as an External Examiner for the semester practical examination to Fatima College and Saraswathi Narayanan College, Madurai.
- Dr. N. Savitha Devi has applied to Madurai Kamaraj University, Madurai for recognizing her as Research Supervisor. She was setting question papers to C.Abdul Hakeem College, Melvisaram.
- Mr. S. A. Deva Prince was setting question papers to Jayaraj Annapackiam College, Periyakulam.
- Mr. S. A. Deva Prince, Assistant Professor delivered two guest lectures on the topics "Structural Predictions of Simple Polyatomic Molecules using VSEPR Theory" and "Organic Nitrogen Compounds" for the +2 school students in the Association Meeting held in Pathirakaliamman Matriculation Higher Secondary School, Palamedu, Madurai on 18-02-2020.
- Dr. M. Amalraj was setting question papers to Madras Christian College, Tambaram.
- Dr. M. Easuraja was setting question papers to Jayaraj Annapackiam College, Periyakulam.

Participation / Paper Presentation in Conferences/ Workshops/ Seminars

- Mr. K. Ganesan presented a paper entitled "Ailanthus excelsa leaves extracts as sustainable corrosion inhibitor of mild steel in sulbhuric acid medium" in the International Conference on 'Expanding Frontiers in Chemistry 2019 on 13-09-19 conducted by Arul Anandar College, Karumathur, Madurai.
- **Dr. A. John Jeevagan** presented a paper entitled "Facile Synthesis of Visible Light Driven Tin Oxide (Sn₃O₄) Supported Bimetallic Nanoparticles and its Photocatalytic Activity" in the National conference on 'Emerging Trends in Chemistry and Energy Science' conducted by Saraswathi Narayanan College, Madurai on 07-02-20.
- **Dr. M. Amalraj** attended a workshop on Recent Trends in Electrochemistry for Societal Applications conducted by Loyola College, Chennai on 31-01-2020.
- **Dr. M. Amalraj** also presented a paper entitled "Preparation of Ni(OH)₂/Carbon Nanohybrids by Hydrothermal Carbonization Process for the Electrocatalytic Applications in Oxygen Evolution Reaction" conducted by Saraswathi Narayanan College, Madurai on 07-02-2020.

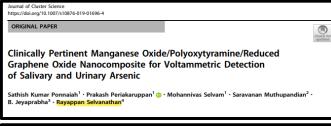
Research Publications

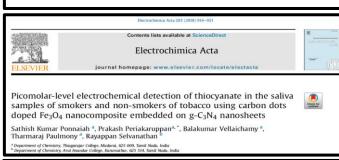
- **Dr. S. Rayappan**, published a paper entitled, "A facile novel synthesis of ThO₂/Fe₃O₄ nanocomposite with enhanced photocatalytic activity for the degradation of malachite green under visible light irradiation" in the **International Journal of Pharmaceutical Science and Research** 10 (2019) 2902.
- He also published "Clinically Pertinent Manganese Oxide/Polyoxytyramine/ Reduced Graphene Oxide Nanocomposite for Voltammetric Detection of Salivary and Urinary Arsenic" in the Journal of Cluster Science, 2019 (DOI: 10.1007/s10876-019-01696-4).
- He also published "Picomolar-level electrochemical detection of thiocyanate in the saliva samples of smokers and non-smokers of tobacco using carbon dots doped Fe₃O₄ nanocomposite embedded on g-C₃N₄ nanosheets" in Electrochimica Acta 283 (2018) 914 with an impact factor of 5.383.
- Dr. N. Savitha Devi published a paper entitled, "Catalyst free Synthesis of Highly Functionalized Indolizines from In Situ Generated Pyridinium Ylides via One-Pot Multicomponent Reaction" in Chemistry Select 4 (2019) 3717 with an impact factor of 1.811.
- **Dr. M. Amalraj** published a paper entitled "Biocompatible supercapacitor electrodes using green synthesised ZnO/Polymer nanocomposites for efficient energy storage applications" in the **Journal of Energy Storage** 28, (2020) 101275 (DOI: 10.1016/j.est.2020. 101275) with an impact factor of 3.517.

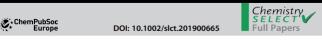
Contribution of the Retired Professors

- 1. **Dr. D. Thenraja, Former Head of Chemistry** visited the department and motivated I PG students in the orientation program conducted on 25 June 2019. He also visited the college and acted as *Jury in Chem Turncoat* event in ChemFest 2K19 on 18-12-2019.
- 2. **Dr. S. Arockiadoss, Former Professor of Chemistry** visited the college on 21-11-2019 and donated about 100 chemistry books to the Department of Chemistry.





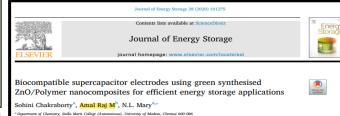




■ Organic & Supramolecular Chemistry

Catalyst free Synthesis of Highly Functionalized Indolizines from *In Situ* Generated Pyridinium Ylides *via* One-Pot Multicomponent Reaction

Vediyappan Ramesh,^[a] <mark>Natarajan Savitha Devi</mark>,^[b] Marappan Velusamy,^[c] and Sivakumar Shanmugam^{*[a]}







Dr. M. Sankaranarayana Pillai Endowment Scholarship

Established in 2016 by Mr. S. A. Deva Prince, Assistant Professor of Chemistry, Arul Anandar College in honour of his Professor – to be awarded preferably to two deserving B.Sc. Chemistry students from the interest accruing from Rs. 25000/-. This has been enhanced to *Rs. 50000/-* by Mr. S. A. Deva Prince in this academic year 2019-2020.

Activities of the Department of Chemistry during the Academic Year 2019-2020

1. Welcome get together

A welcome get together was arranged to welcome the new Rector Rev. Dr. John Pragasam S.J. and the new faculty Dr. M. Amalraj at Royal Court, Madurai to welcome them.



Orientation Program for I UG students was conducted in the Department of Chemistry on 25 and 26 June, 2019. **Dr. S. Rayappan**, Assistant Professor & Head, PG Department of Chemistry, welcomed the dignitaries and the fresher.

Rev. Dr. John Pragasam S.J. Rector, AAC delivered the inaugural address. Entry level test was conducted for the fresher. Motivational sessions, lab safety instructions, fun chemistry, various opportunities in chemistry, scope in pursuing higher studies, and various competitive exams in chemistry were conducted.

3. Orientation Program for I PG

Orientation program for I PG students was conducted in the Department on 15 &16th July 2019 for the fresher. **Dr. S. Rayappan**, Assistant Professor & Head welcomed all the PG students. **Dr. D. Thenraja**, Former Head and Retired Professor of Chemistry motivated the PG freshers. Motivational sessions and general guidelines to approach competitive exams like NET and GATE were given to the students. **Mr. S. A. Deva Prince, Dr. M. Amalraj** and **Dr. K. Jansi Rani** highlighted the significance of Inorganic Chemistry, Physical Chemistry and Organic Chemistry to approach the competitive exams, respectively.















4. Welcome Party

Fresher day celebration was organized in the department of Chemistry to welcome I UG and I PG students organized by II & III B.Sc. and II PG students. **Dr. S. Rayappan**, Assistant Professor & Head welcomed the students. Various events were organized by the students. To spread green, tree saplings were given to the fresher students. **Dr. N. Savitha Devi** was the convener of the meeting.



5. International Conference on Expanding Frontiers in Chemistry-2019 (EFC 2019)



The Department of Chemistry was started in 1979 and since then it has grown into an active department of Arul Anandar College. As part of the celebration of Golden Jubilee for Arul Anandar College and Ruby Jubilee for Chemistry department, the department organized a one-day UGC sponsored *International Seminar on Expanding Frontiers in Chemistry-19* on 13th September, 2019 at Arul Anandar College, Karumathur. Around 80 participants including national and international participants, research guides, research scholars and post-graduate students had registered for the seminar. Dr. S. Rayappan, Convener, welcomed the gatherings. **Prof. Dr. K. Pitchumani** released the proceedings of the conference (ISBN number: 978-93-86712-89-9). Prof. Dr. K. Pitchumani, Vice Chancellor, Manonmaniam Sundaranar University, Professor. Dr. T. Mohan Das, Department of Chemistry, Central University of Thiruvarur, Tamilnadu and Professor Dr. M. Saravanan, College of Health Science, Mekelle University, Ethiopia were invited as key-note speakers. 59 researchers presented their research work in oral and poster presentations. Miss. S. Priyadarshini, University of Malaya, Kuala Lumpur - 50603, Malaysia presented her paper thorough Skype. The organizing secretary, **Dr. S. Martin**, Organizing Sectratry formally thanked all.

6. Association Activities of the Departments

Invited Lectures in Chemistry

IL1: Chemistry association was inaugurated on 16-9-2019 and **Dr. Prabhu**, Assistant Professor, Nallamuthu Gounder Mahalingam College, Pollachi gave a lecture on "Introduction to Natural Products".

IL2: Invited International Lecture on "Modern Drugs" in commemorate the birth anniversary of Dmitri Mendeleev (Father of Modern Periodic Table) was organized on 10th February, 2020. **Dr. Manoharan Ramasamy**, Global Head, Process Analytics Center of Excellence, Global Pharmaceutical Operations, Merck and Companies, West Poing, PA-19486- an illustrious alumini of Arul Anandar College (*First B.Sc. Batch, 1982*) delivered a lecture on Modern Drugs.

IL3: To celebrate **National Science Day**- 28 February 2020 and also to celebrate the valedictory function of Chemistry Association, an invited lecture was arranged on 28th February 2020. **Dr. M. Rajendran**, Associate Professor and Head, Department of Chemistry, SVN College, Madurai delivered a lecture on "*Computation Quantum Chemistry*".











7. Department Level – Alumni Meet

Alumni meet was conducted in the Department on 12-10-2019. More than 30 alumni participated in the alumni meet. **Dr. S. Rayappan**, Assistant Professor & Head, welcomed the alumni and **Rev. Dr. S. Basil Xavier**, Principal delivered the presidential address. A video of Memory Lane was played which contained the collection of photos of alumni. Many alumni shared their memory and also gave suggestions for the growth of the Department. **Dr. S. Martin** and **Mr. K. Ganesan**, were the organizers.



Mr. M. Anna Pushpa Raja, Alumni (2002-05), Senior Chemistry, UAE contributed *Rs. 25000/-* to the Department of Chemistry for helping poor students in paying their fees. 4 students got benefited out of the contribution.

Mr. P. Pandidurai, Alumni (2000-03), MD, Sivasakthi Garments, Tirupur has contributed *Rs. 10,000/-* to Department for conducting Intercollegiate competition ChemFest 2K19.

Mr. L. Antony, Alumni (2000-03), Pharmacist, Karumathur has contributed *Rs. 5000/-* to the Department for helping poor students in paying the fees.

8. Intercollegiate Competition- ChemFest 2K19

PG Department of Chemistry, Arul Anandar College organized an intercollegiate competitions CHEMFEST-2K19 on 19th December, 2019, to mark the Golden Jubilee celebrations of Arul Anandar College and Ruby Jubilee celebration of the Department of Chemistry. 26 colleges from all over Tamil Nadu registered for CHEMFEST 2K19. A total of 312 students along with 17 accompanying professors attended CHEMFEST 2K19. Competitions like Chem Turncoat, Chem quiz (UG and PG), Chem Rangoli, Chem Meme, Chem Presentation, Chem Ad-Act and Mr/Miss Chemist were conducted. Mr. Logesh from Ayya Nadar Janaki Ammal College, Sivakasi won the Mister Chemist title. Among 24 colleges, Ayya Nadar Janaki Ammal College, Sivakasi, won the overall championship by winning many prizes in various competitions. Dr. S. Rayappan (Convener), Mr. S. A. Deva Prince (Organizing Secretary) and Dr. M. Amalraj (Coordinator) along with the support of other faculty conducted the events successfully.















அருளானந்தர் கல்லூரி வேதியியல் விழா

செக்கானூரணி, டிச.22 – உள்ளிட்ட 8 வகையான கருமாத்தூர் ஆனந்தர் கல்லுாரி பொன் பட்டன. சிவகாசி அய்ய விழா கொண்டாட்டம் மற் றும் வேதியியல் துறையின் 40ம் ஆண்டு நிறைவு விழா கோப்பை வென்றது. உதவி நடந்தது.

துறைத்தலைவர் ராயப் பன் வரவேற்றார். கல்லூரி அதபா ஜான்பிரகாசம், செயலர் ரின்ஸ், இணை முதல்வர் மைக்கேல் ஜான்பீட்டர், விருதுநகர் வி.எச்.என்.எஸ். என்., கல்லூரி பேராசிரியர் முத்துராஜ் பங்கேற்றனர். மாணவர்களுக்கு வினாடி வினா, கோலம்,

மீம்ஸ்

வேதியியல்

அருள் போட்டிகள் நடத்தப் நாடார் ஜானகியம்மாள் கல்லூரி சாம்பியன் பேராசிரியர் அமல்ராஜ் நன்றி கூறினார்.

விழிப்புணர்வு

அரைஸ் விரிவாக்கத் செயலர் மணிவளன், துறை சார்பில் மழைக்கால அமைப்பு செயலர் தேவபி தொற்று நோய் விழிப்பு ணர்வு சைக்கிள் ஊர்வலம் நடந்தது. தமிழ்த்துறை பேராசிரியர் விஜய் வர வேற்றார். செல்லம்பட்டி ஆரம்ப சுகாதார மைய மருத்துவ அலுவலர் ஆனந்தஜோதி உள்ளிட்

9. Student Activities and Pongal Celebration

To develop the communication skills of students, students were encouraged to participate in **SPEAKPARK**. 13 students participated in that. The students were encouraged to participate in seminars and competitions conducted by other colleges and they won prizes from various colleges. Students participated and won many prizes in the intra-college competitions conducted by Arul Anandar College. The department actively participated in the *Pongal Celebration* arranged by the college. Students actively participated in various competitions and won II prize in cycle tyre running competition by Ms. P. Pandeeswari, Ms. M. Subalakshmi, Ms. K. Aasha and Ms. S. Merlin and I prize in Balloon Bursting by Ms. P. Pandeeswari. Mr. K. Ganesan coordinated the students along with department faculty and Pongal was celebrated in grand manner.



10. Intercollegiate competitions

SFR College, Sivakasi

Mr. S. Denisdon, I M.Sc. student won I prize in *Chem Meme* in the intercollegiate competitions conducted at SFR College, Sivakasi on 28th January, 2020. *Dr. M. Amalraj*, Assistant Professor, accompanied and encouraged the team of students who participated in the intercollegiate competitions.

Jayaraj Annapackiam College, Periyakulam

Mr. A. Antony Samy from III B.Sc. won the II prize in *Chem Quick* in the intercollegiate competitions conducted by Jayaraj Annapackiam College, Periyakulam on 9-1-2020.

The American College, Madurai

Ms. S. Snega from II B.Sc. won the II prize in the paper presentation competition for presenting 'High Energy Batteries' at The American College, Madurai. Mr. S. Ashraf, Mr. S. Edison, Mr. M. Anish from III B.Sc. and Mr. M. Gokula Krishnan and Mr. A. Tokophilus from I B.Sc. participated in *Chem Ad-Act* held at The American College, Madurai and won I prize. *Mr. K. Ganesan*, Assistant Professor accompanied and encouraged the team of students who participated in the intercollegiate competitions.





Parvathy's College of Arts and Science, Dindigul

Students from the Department of Chemistry participated in the intercollegiate competitions conducted by Parvathy's Arts and Science College, Dindigul on 14-02-2020. Ms. S. Snega from II B.Sc. won the II prize in the *paper presentation* entitled 'Materials Chemistry'. Mr. S. Ashraf, Mr. S. Edison, Mr. M. Anish from III B.Sc. and Mr. M. Gokula Krishnan and Mr. S. Mohith Vikash from I B.Sc. won I prize as a team in the *Chem AdAct*. Mr. Sathish from I B.Sc. won the III prize in *Chemart*. Mr. A. Antony Samy from III B.Sc. won the II prize in *Chemspeed* competition. Ms. M. Sri Aruthra and Ms. K. Jansidevi won the II prize in *Chem modelling*. *Dr. S. Martin*, Assistant Professor accompanied and encouraged the team of students who participated in the intercollegiate competition. Out of 26 colleges, students of Arul Anandar College won the *OVERALL CHAMPIONSHIP* trophy at the intercollegiate competitions held at Parvathy's College of Arts and Science.

Gandhigram Rural Institute, Dindigul

Students of Chemistry actively participated in the intercollegiate competition RESONANCE-2k20 conducted by Gandhigram Rural Institute, Dindigul. Ms. S. Snega from II B.Sc. won the II prize in the *paper presentation* for presenting "Sustainable Materials for Energy Applications". Mr. S. Ashraf, Mr. S. Edison, Mr. M. Anish from III B.Sc. and Mr. M. Gokula Krishnan and Mr. A. Tokophilus from I B.Sc. participated in *Chem Ad-Venture* and won I prize. *Mr. M. Murugapandi*, Assistant Professor accompanied and encouraged the students.

Kalasalingam University, Krishnankovil

Students of Chemistry participated in the intercollegiate competitions conducted by Kalasalingam University, Krishnankovil on 22-02-2020. Mr. S. Ashraf, Mr. M. Anish, Mr. S. Edison from III B.Sc. and Mr. M. Gokulakrishnan and Mr. A. Tokophilus from I B.Sc. won the II prize in *Chem Adact*. Mr. A. Antony Samy from III B.Sc. Chemistry won the III prize in *Chemclicks*. Mr. P. Nagarajan, Mr. P. Pawel, Mr. P. Kabilan and Mr. K. Marimuthu won I prize in *Chemconnection*. Mr. K. Marimuthu from III B.Sc. won I prize in *fun chemistry*. *Dr. M. Amalraj*, Assistant Professor accompanied and encouraged the students.

A team of students won the **Hat-Trick I prize** in *Chem Ad-Act* conducted at The American College, Parvathy's College of Arts and Science and Gandhigram Rural Institute and *Ms. S. Snega*, II B.Sc. won **Hat-Trick II prize** in *Chem Presentation* at The American College, Parvathy's College of Arts and Science and Gandhigram Rural Institute.

11. Seminars and Workshop attended by Students

Mr. P. Pawel and Mr. A. Anandaraj (II M.Sc.) attended a workshop on chemistry conducted by Lady Doak College, Madurai on 13-12-2019.

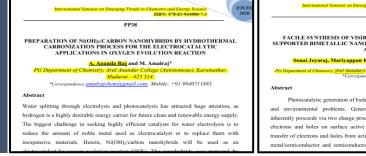
Mr. R. Rahul, Mr. S. Denisdon and Ms. A. Ashwin Felicita (I M.Sc.) and Dr. M. Amalraj attended the workshop on "*Recent Trends in Electrochemistry for Societal Applications*", conducted by Loyola College, Chennai on 31-1-2020.

Mr. S. Jeyaraj, Ms. M. Kavitha (II M.Sc.) and Dr. A. John Jeevagan presented a paper on "Facile Synthesis of Visible Light Driven Tin Oxide (Sn₃O₄) Supported Bimetallic Nanoparticles and its Photocatalytic Activity" in the International Conference on 'Emerging Trends in Chemistry and Energy Science' at Saraswathi Narayanan College, Madurai on 7-2-2020.

Mr. A. Anandaraj (II M.Sc.) and Dr. M. Amalraj presented a paper on "Preparation of Ni(OH)₂/Carbon Nanohybrids by Hydrothermal Carbonization Process for the Electrocatalytic Applications in Oxygen Evolution Reaction" in the International Conference on "Emerging Trends in Chemistry and Energy Science" at Saraswathi Narayanan College, Madurai on 7-2-2020.

Mr. S. Jeyaraj and Mr. A. Anandaraj (II M.Sc.) attended *National 'Seminar on Recent Trends in Chemistry*' conducted by the Department of Chemistry, Fathima College, Madurai.

Mr. S. Jeyaraj, Ms. M. Kavitha (II M.Sc.) and Dr. A. John Jeevagan presented a paper on "Facile Synthesis of Visible Light Driven Tin Oxide (Sn₃O₄) supported Pd-Au Alloy Nanoparticle" in the National Conference on 'Energy Science and Technology', organized by Periyar University, Salem.





12. Cultural and Sports activities of students

Sports activities

On sports day, our students participated in March past and won III Prize.

Dr. A. John Jeevagan, Cultural and Sports in-charge of our department encouraged the students and received the cash prize of *Rs.* 2500/for winning the March past event.

Mr. A. Antony Samy (III B.Sc.) won II prize in 2000 meter running competition in the sports day competition. During Interdepartmental Sports meet conducted by our college, our students won the *runner up* in *Kho Kho* event.



Cultural Activities

Saral: Department level tamil skit competition was organized by Tamil department on September 28, 2019: Our students, S. Snega, R. Naveena, A. Karthick, S. Samson, P. Nikkitha, K. Aasha, A. Anitha, S. Deepak Manikandan and P. Nagarajan actively participated in tamil skit with a theme "*Prevention of Environment*".

Theatre Fest: Department level English skit competition was arranged by English department on 15-02-2020. Our students R. Rahul, R. Muthulakshmi, S. Sweety, P. Ajitha, R. Reena, M. Monisha, P. Nikkitha, A. Abitha and P. Kabilan actively participated in English skit. *Dr. A. John Jeevagan*, Assistant Professor coordinated and trained the students for Saral Tamil skit and English skit.

As part of the celebration of Golden Jubilee, college has conducted speech competition. Our student Mr. P. *Kabilan* from I B.Sc. won *III prize* in the speech competition and spoke about *AAC-The Light House for Rural Students*.

Camp Fest 2k20-Department level competition

Department level competitions Camp Fest 2k20 was arranged by our college. Our students won number of prizes in the events. Mr. Antony Samy won the I prize in *Photography competition*. Mr. S. Ashraf from III B.Sc. won the III prize in *Talent Show*. Ms. A. Kavitha and Ms. P. Pandeeswari participated in *face painting* and won III prize. Mr. Anish from III B.Sc. won the III prize in *Start with Rs. 50 event*. Besides our students won the first prize in the on stage events such as *Folk dance* and *Ad Mad* and participated in the on stage event *Fusion dance*.

Dr. A. John Jeevagan, Assistant Professor, encouraged the students for participating and winning prizes in Camp Fest 2k20.



Photograph of Mr. A. Antony Samy that won I prize in Campfest- 2K20

13. Other activities

Board of Studies Meeting

BoS meeting was conducted for the revision of syllabi for III B.Sc. under CBCS pattern and II B.Sc. under OBE pattern on 09-01-2020. Chair person Dr. S. Rayappan, Assistant Professor & Head invited the external members and the faculty of the department. Dr. V. Padmini, (University Nominee), MKU, Dr. A. Gubendran, SN College, Dr. P. Prakash, Thiagarajar College and Mr. B. Servaramuthu, Vivekananda College came as external experts and gave valuable inputs.

Besides, Department faculty meeting were held on 15-06-19, 15-07-19, 08-08-19, 17-12-19, 27-02-20 and 09-03-20 to plan various academic events in the academic year 2019-20. **NET/GATE/JAM Coaching**

For the benefit of our students, NET/GATE/JAM coaching classes were conducted by Mr. S. A. Deva Prince and Dr. M. Amalraj from 2-4 p.m. on every Tuesday, Wednesday and Thursday. Students from III B.Sc. and PG students attended and got benefited out of the classes.

Contribution of Faculty to Students

Besides, Dr. S. Rayappan and Mr. S. A. Deva Prince helped the students in paying their semester and exam fees.

14. Industrial Visit

Department of Chemistry, Arul Anandar College arranged three days industrial visit on March 9-12, 2020. 56 students along with Dr. S. Rayappan and Mr. S. A. Deva Prince visited Karnataka Soaps and Detergent Limited, Bengaluru, Central Food Technological Research Institute (CFTRI), Mysuru and Visvesvaraya Science Museum, Bangaluru and got great exposure about industry.

15. Science Exhibition

As a part of Golden Jubilee Celebration, Department of Chemistry arranged science exhibition on March 2-7, 2020. Students exhibited various scientific experiments like *pH sensor using red cabbage, hydrogen evolution using sodium borohydride, red blood cut* and etc., Students from in and around schools to Arul Anandar College visited the exhibition and got benefited.











"We think this newsletter just says a lot about Chemistry between Students and the Department!" We sincerely thank the management of Arul Anandar College (Autonomous), Karumathur for their extensive support and encouragement.