

MESSAGES RECEIVED ON 65th BIRTHDAY Prof Mujumdar- Compiled by Sachin Jangam

About Arun.....

Arun and I will be celebrating our 38th wedding anniversary on January 12th, 2010 and during all these years he has always been a selfless, loving person with great integrity and grace. He has always let me be myself, encouraging me in various things I wanted to explore and helping me relentlessly in all the phases of our life together. I have been blessed with such a wonderful husband.

Arun is an excellent family man who has extended his family worldwide. He is such a motivating, supportive and caring teacher that it is no wonder that all his past and present students have so much love and respect for him!



It is mind-boggling for me to understand how Arun can take care of a million things in a short time. His desk is always in chaos - but I guess he finds his own order in that chaos! He is famous for answering his e-mails as soon as he reads them. He reviews papers and theses of his students as soon as he receives them and is always available to his students to answer their queries. He works on books and the DRT journal on an on-going basis and yet he still finds time to go out to movies or shopping and dinners with me. I think he is a great juggler!

Recently he has found a great joy in art. He is an artist at heart right from the beginning and now he has taken up painting to relieve external stress and has found joy within. His painting style is quite quick, the brushstrokes are short and fast, the colors are vibrant and bright and the flow is very smooth and harmonious. He has developed his own unique style using watercolors and completes his paintings so fast that I jokingly call him "five minta painta". Thank you very much Sachin for compiling this artistic e-book of Arun's artwork so that all our friends and family around the world will be able to see his paintings and enjoy them as much as I do.

Happy Birthday, Arun !

Purnima

About Dad

Arun S. Mujumdar is known throughout the world by many names: “Dad” by his family, “Professor” or “Doctor” by his students, and “Drying Guru” by industry professionals. Now we can add one more admirable title to the list: “Artist”. My father is a true Renaissance Man - scholarly, a noted expert in his chosen profession and knowledgeable in a variety of fields, from chemistry to politics. His interests are as varied as his art.

My family has had the benefit of knowing for a long time how artistic my father really was. I vividly recall as a child watching him sketch drawings of people, animals, places – anything that jumped to him - either by looking at a photo or from memory alone. (This still happens even today!) He has always encouraged me to develop my own talents, knowing the benefits of having a hobby that could be both relaxing and challenging for the mind. My father had an inherent artistic ability from the start. However, given the demands of academia and pressures of family, he was never able to fully develop his talents until later in life, when he became more established and had more time for himself. We are all grateful that he has finally begun to pursue his passion and as this book attests, we can see how talented this self-taught artist has become.

His style is distinct – like no other that I’ve seen. His fast, bold strokes and use of bright colors evince strong emotions. His unique style of utilizing and mixing non-traditional media elements in his art demonstrates his willingness to experiment and not conform – likely a result of his years as a researcher looking for the right answer! More importantly, his talent of turning a plain sheet of paper into a colorful masterpiece (in mere minutes) is a pleasure to see.

We have long been proud of our father’s artistic accomplishments. We are delighted to now share them with the rest of the world.

Amit Mujumdar

About My father

My father has always been extremely artistic and creative. I remember how my school projects always stood out from the rest of my class because my father used to help me with the artwork – while my classmates were cutting and pasting magazine photo clippings! Although he always enjoyed sketching and painting, he never had the time to pursue this hobby.....he was busy with work, busy helping our mother around the house, busy helping my brother and I with homework and busy being our chauffeur on the weekends taking us to our various activities (basically busy being a great Dad!). I'm so happy that now he has found some free time (however little that is!) to focus on his amazing talent. My mother also really enjoys painting and it's so nice to see them share this special interest and constantly encourage each other.

I'm so glad that my father has found a hobby that gives him so much joy – while at the same time bringing joy to others with his wonderful and unique artwork!

My father has taught me many of life's lessons....the value of hard work and determination, the importance of putting family first, the need to respect yourself and all those around you and the honor that comes with humility.

He has, and always will be, my inspiration to be the best that I can be and I'm so proud to call him 'Dad'. And now there's even more that makes me so proud of him – his incredible artwork!

A special thank you to Sachin for creating this e-book of my father's artwork – we will cherish it always and are so eager to share it with the world!

Anita Mujumdar

From Sakamon Devahastin

Prof. Mujumdar has always mentioned that he is lucky to have a string of excellent graduate students and research associates and he would not be able to reach the stage where he is now without the contributions of all these fine individuals. On the other hand, I must say that I am also blessed to have such a mentor like him. It is indeed the logical way of thinking he has instilled in me during the past 15 years that allows me to achieve something, including a relatively smooth transition from being trained as a chemical engineer, with no whatsoever knowledge about food, to becoming a food engineering researcher as I am today. It is the way of thinking, not the mere body of information, that he always emphasized as being most important.

I take this opportunity to wish Prof. Mujumdar a smooth transition from “drying” to “drawing.” I hope the transition would be “smooth” enough that he would not dehydrate himself from the former “dry” field too rapidly. As he always says painting is basically a stress relief exercise for him, akin to meditation.

Sakamon Devahastin
Bangkok, Thailand



About Arun

Arun is a natural leader of any community. He earns respect from giving guidance and assistance to his students and associates- many located around the globe. He believes in “the value of an idea lies in how well it is shared” and practices it. He is always resourceful. I was happily surprised that he has references and reading materials far beyond drying or heat/mass transfer.

This e-book of his artwork is a unique and innovative gift to present to Arun on the occasion of his 65th birthday marking the collective achievements of the perfect couple. Although drying and other research areas Arun has contributed to benefits many, the research work can still be appreciated by only a limited number of people. This e-Book, on the other hand, would be an inspiring piece of work to influence many now and in years to come.

Happy Birthday Arun !!!

**Prof. Guohua Chen
Hong Kong**



Dear Arun....

It is my great pleasure to have observed over the past 2-3 years that you have been doing the rather unique artwork. I also know that you can do them rather fast. I like them very much. I hope this booklet will give you the confirmation that not only they have helped you to relax from such a busy schedule that you have, but also they have enlightened many of us that there should be a life beyond work 😊 J

It is you Arun who has helped establish a drying community in which people like me enjoys the benefit of a rich culture, a solid continuity, a way to develop good career. Arun, yourself, is a role model for us all.

65 is just another exciting beginning. I think you have discovered the world of art in your heart, and in your skilled hands, and I hope you will continue doing that and reflect on them in the years to come. So then you can share that reflections and thoughts with us, to make us stronger in life and make us all skillful in tackling the problems that we may face in career and in life in general.

At this point of time, I expect to see you still at all important occasions of drying research events and I am eager to spend more personal time with you to share experiences, though I know I am benefited from the conversations a lot more than you do.

I have never been a formal student of yours and I envy those who were. However, I have no doubt that at my heart, I am your student.

Professor Xiao Dong Chen
Chair of Biotechnology, Associate Dean of Engineering
Monash University, Australia

About Professor Arun Mujumdar

In the eyes of scientists and engineers who are active in drying R&D in China, Prof Arun S Mujumdar is a creative scientist, superb teacher, dynamic collaborator and a wonderful friend. Over the past 30 years, Professor Mujumdar has made important contributions to the development of drying technology in China. Before 1980s, few people in china studied drying technology. Now, drying R&D has become very active area of R&D in China. The study of drying technology has attracted many young researchers; the number of published research papers has increased rapidly and continuously.

Over his career, Professor Mujumdar has mentored over 50 doctoral students and advised over thirty post-doctoral fellows including many Chinese students. Our students often worked closely together and have become lifelong collaborators /friends. His love for learning and his insistence on excellence and in critical examination of whatever we did were both daunting and inspiring. Following his examples, our students always work very hard and this led us to do well in our doctoral research and publication in archival literature. The love of learning, the highest standards of excellence in science, and the impeccable ethics that professor Mujumdar taught us by his example, were something that his students and associates will cherish all our lives.

Immensely hardworking, a man of principles, Professor Mujumdar is at the same time a man who heartily enjoys everyday life. He is an enthusiast of cooking, painting, travel, of maintaining contact with family and friends worldwide. He and his wife, Purnima, often invite his students and research group members- often referred to as his family- to his home and host us with delicious Indian dishes. They also share us with their beautiful painting and drawings. The paintings are favored by our students and I have collected some of his Chinese style paintings.

As an admirer of his contributions to Chinese drying R&D and his supervision of my PhD thesis and mentorship of my post-doctoral work at NUS, I look forward to sharing many more exciting years of science with him in the future.

**Dr. Wu Zhonghua, Professor of ME, TUST, Tianjin
China**

About Professor Arun Mujumdar

I have known Prof. Mujumdar for over five years when he visited his alma mater, Institute of Chemical Technology, Mumbai, but as a member of his research group in Singapore only for a few months. I was very impressed when I met him for the first time during the first drying conference in India-IWSID-2004- in Mumbai. He has unique qualities such as his humble simplicity, politeness and respect



for everyone's feelings, which makes him special from other accomplished and well known professors/researchers. It is very rare to find such qualities in a person who has achieved so much in his life and who is so famous world-wide. He respects everyone in discussions, no matter the subject of the talk. Aside from matters related to research, he likes to share his original ideas and knowledge about numerous topics with his students and associates. I consider myself very fortunate to get the opportunity to work in his team under his kind guidance (Many Thanks to Prof. Thorat as well). He has guided me throughout my own Ph. D. work in Mumbai through emails and whenever we met in Mumbai, which brought me to this level. Indeed, he already advises as many PhD students at overseas universities as he does at NUS!

His contribution to our Institute, The Institute of Chemical Technology (his alma mater) and my country-India- has been and continues to be immense. There is lot to learn every one can learn from - not only in drying or chemical engineering. I am surprised to see his ability, effectiveness and efficiency to work so hard even at his age (he will soon be 65 !!!). He must respond to hundreds of e-mails everyday from all over the globe-aside from the internal mail from within the university and academic circles. He acknowledges and responds to every email, may it be a single line reply; this is his way of conveying his respect to the correspondent who maybe an undergraduate student in Peru or a world famous professor at a top-ranked university. I am learning to adopt this unique quality he has. I receive his emails often sent in the morning at 4.30 a.m. or after midnight even on Sundays , which I never could do myself nor can I imagine this to be possible for me (and indeed most people) to do in my life. His "Zero-Backlog" policy- which means every item in his Inbox must be cleared with a response before midnight of the day it arrives- is probably responsible for the occasional bouts of insomnia he

suffers from. It is not uncommon for his students to get their draft thesis chapters or journal papers read/revised/corrected within 24 hours or a whole thesis corrected within 5 days of submission to him. Most need months to do the same for their students.

He stays connected through hyperspace with his research group and international collaborators even when he is traveling in various parts of the globe. I am very impressed with his ability and willingness to share his original R&D ideas with his students as well as professionals in industry and academia. He motivates young people to bring original contributions to whatever field they work in while under his tutelage or when they are on their own elsewhere. It is needless to say that he is a great mentor, and this is reflected from the major achievements of his students and associates who are themselves excelling in their R&D and professional jobs all over the world. Everyone who has anything to do with drying knows of his contribution to the field of Drying Technology; indeed he founded the interdisciplinary field of drying R&D. He is widely known as the "Drying Guru". He has spread this field of research in all parts of the world. The Drying Technology Journal co-founded by Prof. Mujumdar is touching higher and higher standards every year. The IDS series founded by Prof Mujumdar is the most sustained series of conferences in Chemical Engineering and related fields and still it is going strong with several sister conferences that spawned out of the IDS series; they were also co-founded by Prof. Mujumdar.

To talk about his art, I think I have seen almost all his watercolors. I am no art critic or expert but I see tremendous variety and originality in his art. I understand he started this hobby at the suggestion of his better-half, Purnima Mujumdar, as a way to relieve excessive stress caused by excessive workload-often 14 hrs a day! I appreciate his paintings even more as he limits his time to each work to no more than 20 minutes for each work, which of course is due to time limitation. Even in his "fast-art" he has introduced innovation- his favorite theme. He combines watercolor with crayon and acrylic as well as **black** ink to generate a new art form! He even has tried successfully to do Chinese blank ink drawing with no formal training in any art form! This collection of his hobby reflects the need to introduce art in science and engineering to be truly creative.

Professor Mujumdar is truly a huge asset to the world of drying as well as chemical/mechanical engineering.. He is truly a great role model for everyone to emulate. I wish him a healthy and productive life. I wish him a very happy birthday in January 2010!!!!

Sachin V. Jangam
M3TC/NUS, Singapore

My thoughts about Professor Mujumdar, (Professor. Min Zhang)

During my PhD study in the eighties, I knew there was a world-famous professor in McGill University, Montreal, Canada who was active in drying research. In 2002, with support from the Chinese Ministry of Education, I had the opportunity to invite Prof. Mujumdar- now at NUS, Singapore- meet and know Prof Mujumdar for the first time during his one week visit to Jiangnan University(JU) (formerly known as Southern Yangtze University and before the known as Wuxi University of Light Industry). The initial impression of my group about him was



that he was a real drying expert with world reputation and a very kind gentleman. I still remember his lecture about the latest progress in drying area. Many teachers and postgraduate students, whose research areas were in food drying were attracted to listen to his lecture which made the auditorium very crowded. This phenomenon was repeated in his following visits in 2003, 2008 and 2009. This has been and continues to be very beneficial to our young drying research group. The agenda for him each time was so tight that he had very little time to rest, but he was happy to supervise our jointly-advised PhD students using his very limited free time. Even now, as Honorary Professor of JU, he co-supervises 12 PhD students with me and we have co-published over 26 research papers in major international journals

The most impressive thing about him for me is his effort in encouraging university-industry relationship. He not only publishes a series of articles as Editorials in *Drying Technology* and presents his points of view at keynotes at numerous international drying conferences, but also does a lot of real work on it. For example, he knew the requirements of Pepsico Food Co. in high-value drying at low cost and introduced JU to Pepsico R&D in USA, which led to establishment of our JU-Pepsico Joint-Institute. Another example is that he is happy to join many university-industry activities during his each visit to us. He has visited Sujing Group in Suzhou, Haitong Group in Zhejiang, Luhua Group in Shandong, Gold Monkey Group in Shanghai, etc. In his each visit, he met the technical people and answered their questions and shared his ideas about drying R & D.

I would like to take this opportunity to thank him very much for everything he has done and for making our researchers enthusiastic about research in the food drying area; his personal dedication and enthusiasm about fostering university-industry relationship has made real application of this research possible.

His artistic ability is a surprise to me and also our students at JU. I feel many of his paintings in this e-book are so beautiful and peaceful, they are like real Chinese professional artwork. My congratulations on his 65th birthday and thanks for the opportunity to contribute our few words to this e-book on ASM art!

Professor. Min Zhang.
Jiangnan Univ., Wuxi, China

To my friend, Arun Sadashiv Mujumdar

It is both a pleasure and privilege to offer a contribution to this booklet marking Arun's 65th birthday. I first met Arun back in 2002 through a commercial involvement and was immediately impressed with his personal strength and caliber. Over the next few years this led to having the deepest of respect for Arun as an individual.

I am not an academic; however, I have been significantly involved in new drying developments globally over the past decade. Arun always provided me with positive and supportive encouragement as we worked through the various challenges that always present themselves during the commercialization of new technology. It was from this that we then had frequent contact at both a professional and personal level.

I have fond memories of sharing many a conversation over a good meal from Budapest to Hong Kong and Melbourne. Recently I was delighted to be able to extend hospitality to both Arun and Purnima on a visit to New Zealand. From that I had a glimpse into his passion for life, his dedication, respect and love for Purnima and his children and his additional talents - in particular his recently developed love of painting.

Arun commented that he found pleasure in painting in that it was a relaxing diversion away from the pressures of work. I felt however that he was keen on developing a second career and said to him that I was glad to have known him prior to when his art work becomes famous.

Arun has an approach to life that few of us reach but many aspire to. Highly organized, professional and always willing to assist, it is easy to see how he is held in such esteem by friends and colleagues alike. Arun deservedly has earned his reputation as being the 'Drying Guru'. However I believe that people are measured in a variety of ways and Arun has the ability to leave a lasting impression on all those with whom he comes into contact. I admire his humility, sense of fairness and the respect that he has for his fellow men and am honoured by his friendship.

Go well Arun and may you have many wonderful birthdays surrounded by friends and family

Max Morley
New Zealand

Dear Prof Arun Mujumdar,

First of all I would like to take this special moment to thank Prof. Mujumdar for all his guidance as my mentor, supervisor with great thoughts and insights over the past eight years and wish him and his family members happiness and good health in years to come.

I had the opportunity to meet Prof. Mujumdar in National University of Singapore to start my research in electronics cooling in 2003. This is something special that happened to me; I was lucky to have him as my research guide 14 years after my bachelor degree graduation. I still remember; his way of approach was so polite, humble and inspiring. I doubt I will be able to meet such a wonderful person as my teacher in this part of my life.

On several occasions, I discussed my research problem with him, he listened and responded 100% whether in short or long meetings. What I found amazing is, on Day one I met him, his email response to everyone and every message is almost instant on any matter, whether research or some thing else. The world can sleep but he is not sleeping so he can respond to every e-mail, whether he is on our campus or travelling or with family; no worries for his students waiting for a response. Professor is the Guru not only in professional and family aspects of life but also in the arts and in cooking too. There are lot of things I have learned from him since the Day one I met him.

Prof Mujumdar, I truly appreciate your dedication and hope you recognize, as we do, the valuable role you play in building our carriers as brighter researchers and experts as we enter the new competitive world. Thank you for your continuing support. It is through the positive efforts of professors like you that one makes a difference to the next generation of students. Once again, I wish him "HAPPY 65th Special BIRTHDAY " which is recorded with his Art Book. Thanks to Sachin for his artistic rendering of the diverse watercolors!

Ravi Kandasamy
Vestas R&D, Singapore

To Professor Arun S. Mujumdar

I would like to express my gratitude for all your teachings, not only about the technical knowledge but also about life, friendship, respect and confidence. With you, I have also learnt how to work friendly with the your own Research Group, sharing knowledge and experience with your students.

I admire you and really appreciate to have a GURU as you !!!

Maria Laura de Azevedo Passos
Brazil



Dear Prof. Arun,

I would like to take the opportunities to express my view as a guide as well as a person of Prof Mujumdar from my last four years experience. Actually it is really difficult for me to find words to express my real feeling about him, however, in short.

I would like to mention from my depth of heart that he is one of the best person in my life. His guidance, patience, behavior, encouragement, suggestions and support is a milestone for me for my future career. Best wishes for his good health and long life.

Dr. Shek Md Atiqure Rahman
Monash University, Malaysia

Dear Prof. Arun,

Over the years, you are my mentor who has guided me in my professional development and my guru who has taught me a lot of great ideas in drying technology and many aspects related to academia. I am thankful to you for all your guidance and time and effort in guiding me all the way.

Over the years, Arun has developed his interest in drawing. He has drawn a lot of nice drawings which I like to insert in my power point presentations.

Arun used to say: "I have extended my interest from drying to drawing. Drawing helps me to exercise one part of my brain associated to drawing and relaxes the other part of brain associated with drying". Two reasons why I like to insert his watercolors in my power point presentation: the colorful images make the presentation looks lively and not so dry; the presentation also makes the audience to use both parts of the brain, one part to process words and drying, the other one to process images and drawing.

I would like to wish you and your family members happiness and good health..

Dr. Chung Lim Law
Univ. Nottingham, Malaysia



The Professor Mujumdar I Know

The first time I met Professor Mujumdar was in 1987 during his 7-day lecture series on drying in Tianjin University of Science and Technology (TUST, previously known as Tianjin Institute of Light Industry) where I was pursuing on my master's degree. My first impression was that he was not only a young knowledgeable professor, but also tall and handsome and was like a popular movie star since Indian movies, like Caravan and Awaara, were very popular in China in early 1980s. Since then there was nearly two decade long research collaboration between him and TUST. In early 1993, I left my lecturer position in TUST for McGill University to pursue my Ph.D. degree under the direction of Professor Mujumdar. During last 24 years I have had the privilege to witness what great human being Professor Mujumdar is and what he has done for the people - who he knows but also those he does not know - and to the many research fields he has worked on.

Professor Mujumdar visited China many times and has traveled widely in China from the north to the south, from the east to the west and gave lectures and seminars at many universities and industries in China since his first visit to TUST, Tianjin in 1984. He has been keeping close contact with several universities on different research areas of drying and heat/mass transfer following his second visit to China in 1987. He devoted much effort to organize several major events in drying R&D in China. He was instrumental in publication of the first Handbook of Modern Industrial Drying, organization of the 13th International Drying Symposium held in August 2002 in Beijing, publication of special issues of Drying Technology—An International Journal dedicated to China's National Drying Conference (CDC), etc. The influence on and contributions of Professor Mujumdar to the drying R&D of China have been and continue to be tremendous.

What he did, not only for China, but also for the drying field the world over, has touched me. I saw him go around the world, year after year, to give lectures and freely present his new ideas for R&D and influence both academia and industry in all his research fields. He also shared his thinking about innovations, creative research, industrial R&D and higher education in general through his lectures and editorials. I witnessed the Drying Technology journal gradually grow into a top quality international journal with his hard work, dedication, mentorship and innovative ideas.

The following two short stories can shed some light about how he influences people. The President of Tieling Precision Engineering Co, Mr. Zhenhua Chen said during his visit to Montreal in 1993, "The success of his company came from a motivation by Professor Mujumdar's lecture in 1984 in Tianjin on the topic of vibrated fluidized beds.

His lecture on vibrated fluidized bed led to over 2000 vibrated bed dryers being built and sold by his company alone. This is one of the major reasons that his company was named the most successful company by Tieling City for several years in late 1980 and early in 1990”.

Another story is from the 95th Annual Meeting & Convention of the Canadian Ceramic Society held in Montreal in 1997. After I finished my presentation on Modelling Drying of Ceramic Refractories, Dr. Polin from a refractory material company in UK came to tell me that he is very grateful to Professor Mujumdar for his suggestions of using superheated steam to dry prefabricated refractory parts. He said this new idea both greatly improves the quality of the dried parts but also significantly decreases the energy consumption compared with conventional drying method. This has made their products successful. When I came back and mentioned this story to Professor Mujumdar he could not even remember where and when giving this idea to whom simply because of the sheer number of people, academics and industry personnel he deals with on a regular basis. Responding to hundreds of technical e-mails and freely providing his ideas and thoughts is his second nature for decades. Many large companies have benefited financially from his advice-often gen for free!

He works for benefit of others and don't look for rewards, money or recognition in return. He has sponsored children from poor developing countries- at least two for over 16 years each! He has given away thousands of books and journal issues to libraries and researchers/students the world over-including to libraries from academia and government agencies in rich countries! He always gives his prompt help with highest priority whenever his former students from all over the world need reference letters for immigration or for a job or for award nominations or postgraduate studies - no matter how busy he is. It is incredible to see him to handle so many different things at the same time and always loves to help people whenever he can.

His art work is a surprise and a bonus to me. I really love some of his paintings that are unique, fresh and delightful.

I cannot thank him enough for everything he has kept on doing thanklessly for the international communities he has any connection with.

**Dr. Zhenxiang Gong,
Biomedical Devices, Calif.USA**

To Honorary Professor of TUST, Dr. A. S. Mujumdar

I expect every book authored or edited by Prof. Arun S. Mujumdar with excitement, as if one found a treasure. People in the DRYING world may have the same feelings as me. This time his art book really gives us a pleasant surprise and new unexpected impact.

Prof. Mujumdar visited our university in 1984, which is his first visit to China. When he paid his 2nd



visit to Tianjin in 1987, I was a freshman. I still remember that I met him on campus, accompanied by an upper class female student. That time we seldom had the chance to meet a Lao Wai[#] in campus. So we admired the girl very much, because she was good in English. In 1995, I got a chance to serve as Prof. Mujumdar's interpreter during a drying Mini-Symposium held in Tieling, Northern China, thanks to my master advisor Prof. Yongkang Pan. Frankly, I had learned English for only a few years, but never talked with Lao Wei till then. You can guess this duty was one of very high pressure rather than glory. I was very anxious! The scene is still alive in my memory. When Prof. Mujumdar began to deliver a speech to the audience, he showed me his lecture material just prepared during the Mayor's introductory speech, so I could translate it a little more easily without losing my face. Later on, with his encouragement and kind understanding, I had the courage to translate his lectures at that symposium. From then on, I had another job, which is to translate some of Prof. Mujumdar's thematic papers. Interestingly, when I attended IDS 2002 in Beijing, I surprisingly found that several Chinese colleagues knew my name although I had left China for doctoral studies at Nagoya University, Japan some four years earlier. At last I understood that they knew my name from my translations of Prof. Mujumdar's papers, which had been published in the massive book entitled Modern Drying Technologies edited by Profs. Yongkang Pan and Xizhong Wang in 1998.

It is without question that Prof. Mujumdar has contributed much to the Chinese Drying Circle, as summarized by Dr. Zhenxiang Gong in his paper entitled "Two Decades of Dedicated Contributions of Professor Mujumdar to the Development of Drying R & D in China". As an additional example, after his course in Tieling, some Professors assimilated his innovational ideas and successfully got funds, supported by government science and

technology committees, to do excellent drying research work. Last year, Prof. Pan handed over his collected literature on drying to me. I pleasantly found that there are lots of books and materials from Prof. Mujumdar; I do not think that some can be retrieved even in China National Library. With a flash of thought, I decided to build a thematic bookshelf to exhibit those books and share them with our Chinese colleagues.

Although I could not be his enrolled student, I have gotten lots of suggestions from him via e-mail. He loves to help young researchers. I find that he is a vigorous and dedicated educator. He responds to all my questions very quickly, sometimes just within a couple of minutes. Also, his website is very informative, and I often click it to learn about new things. I believe that he has a high personal “impact factor” in the world of drying and related fields. His amiable manner is very impressive to our young generation of faculty and students.

From Prof. Mujumdar’s artwork, I know why he is so active and creative! Art is different from Engineering, but a true master can do very well in both of, a real cross-disciplinary action and ability. Einstein played the violin very well. Mujumdar is adept at watercolors!

On the occasion of his 65th birthday, my TUST faculty and I wish Prof. Mujumdar (牟久大) longevity (久) and great (大).

Dr. Zhanyong Li
Dean, College of Mechanical Engineering
Tianjin University of Science and Technology (TUST)
China

Foreigner is called “Lao Wai” in Chinese.

Prof. Mujumdar is the best teacher that I have ever had. He is my true mentor, great motivator who always set a good role model for his students, friends, colleagues and family members to strive harder and continuously in life.

Thanks Professor Mujumdar, for all your guidance and supervision throughout the past seven years. I am looking forward to working more closely with you, and I wish you all the best in your health, family life and enjoyment of your life (and painting too)!

I wish him a very happy, healthy and prosperous life !!!!!

Dr. Poh Hee Joh
IHPC, Singapore



Even if I am working in China now, I am still overwhelmed by his kind assistances. Each of my accomplishments has his mentorship and continuous supports throughout the coming years. I heartedly appreciate him for his kind helps and even do not know how to thank him in a word now. Now May I ask my dear teacher to slow down his working steps and squeeze the time for relax? I also wish he can always keep good health and good mood.

Thanks to him again...

Dr. Li-Xin Huang
Chinese Acad. Forestry, Nanjing, China



About Prof Arun Mujumdar

Prof. Mujumdar has been a very strong role model for me. Throughout my PhD research he has given me tremendous support and new ideas. Thank you! When I initially communicated with him via email, I was very amazed to receive his very quick response. Later on, having met him for the first time in NUS, it was further cemented in my mind how friendly he is to his students. He is always very enthusiastic in sharing and discussing / sharing his ideas.

His painting style is unique, artistically blending water color with ink lines. I first saw his artwork during one of my visits to NUS and I certainly look forward to more of his artworks in the future.

Once again, Prof. Mujumdar, thank you for all the mentoring and opportunities given to me throughout these years

Dr. Meng Wai Woo
Monash Univ, Victoria, Australia



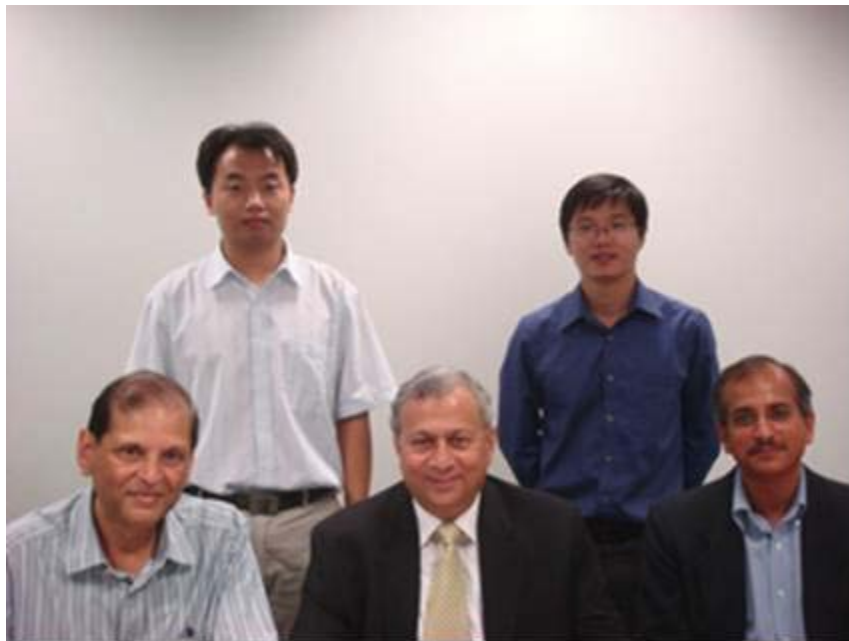
About Professor Arun S. Mujumdar

I still remember the first time when I met Professor Mujumdar in NUS. I was feeling a little nervous before that, however, I was very relaxed after talking to Prof. Mujumdar, as he is a very nice human being. I'm deeply impressed with professor's high efficiency, profound knowledge, innovation, writing skill as well as his paintings.

We, all his students, think that the working efficiency of professor is quite high. As I know, everyday, Prof. Mujumdar handles hundreds of emails, a number of theses and papers to be reviewed, meetings and conferences, as well as teaching and supervising students etc. Still he often spends some time with us, sharing his ideas on research and many other general matters which are also a major part of any research activity.

I was amazed to see his paintings for the first time. I like Professor's water colors very much because they are beautiful, colorful, and delightful. I have told my wife that we will display some of professor's painting in our new house. Professor Mujumdar's paintings are precious artwork..

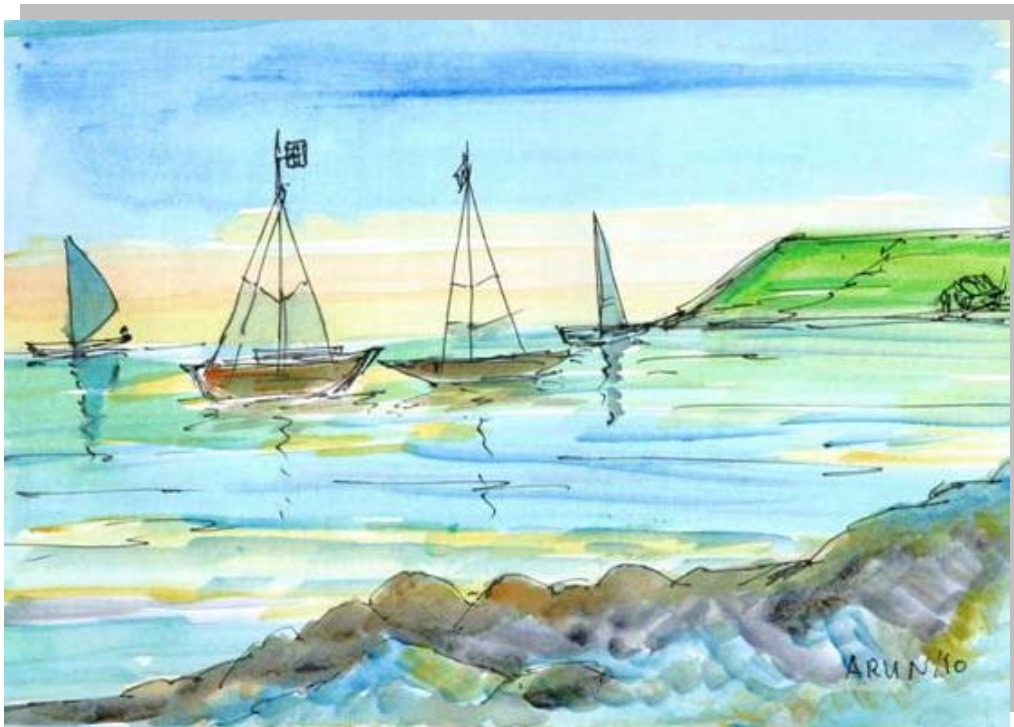
**Dr. Xu Peng,
China, Hangzhou**



About Professor Arun S. Mujumdar

I found Arun as a great human being with good sense of humor and care. He is very hard-working, methodical and always quick to respond. He has great people skills and effective communication skills. He is very thorough in his field and very scholarly. As a collaborator I have found him to be respectful of others' views, quick to relate and full of ideas. He is very good with his students; quite persuasive, but never authoritative. Now with his talents expressed in painting, and his devotion to his family, he is a completely balanced person.

Madhumita B. Ray
Univ. Western Ontario, London
Canada



To Arun

Arun is a very special person. He is absolutely busy but he always makes time to answer our messages. And he has time to do those lovely watercolors! It has been a privilege and a great pleasure to work with him all these years. His kindness is reflected in the delicate watercolors he has painted

Maria A. Silva
School of Chemical Engineering
University of Campinas, UNICAMP,
Brazil

Dear Prof. Mujumdar

Prof Arun S. Mujumdar is more than a Ph.D. supervisor for me. He guides me in research, academics and everyday life; he is truly an excellent role model for all his students in all aspects. I always remember his excellent intuition in research, very strong knowledge of both science and engineering, and his broad vision on research and social activities which have influenced me a lot in my daily life. Furthermore, my favourite quote from Prof is "Start from the simplest thing to improve the system"; this I will always apply in my research.



We all know that Prof. Mujumdar—as Number One person in the world of drying and heat transfer area—is very busy every day with papers, reviews, and other administrative work; however, he always has time for his students as priority. I cannot imagine how he can manage his time so that all the works are finished, while still giving guidance to all his students. For me, being his student is definitely an honour.

Prof. Mujumdar is not only excellent in research, teaching and leadership, but he is also a talented artist. I am impressed with his painting—though I am not an art critique—I can feel in his paintings real 'life'. He, sometimes, combines his engineering and art together. Once he showed me his cartoon painting called 'hybrid sport' in which he combined two different sports: -golf and shooting- with a blend of humour, it is far beyond my imagination to combine the two in a single image; truly a genius!

I want to express my sincere gratitude for the support and guidance during my Ph.D. candidature; it has meant so much to me, Prof.

Agus Pulung Sasmito
NUS, Singapore

Prof.Mujumdar

The Convective Heat Transfer class during my M.Sc. program at NUS gave me the opportunity to meet this great teacher. He makes his students think through his penetrating questions. I always remember the questions he raised during the class about non-dimensional numbers and their physical significance. That significance had a significant effect on every student's mind. He motivates students to be innovative, hardworking and bring original and significant contributions to their field of research by setting him as a role model.

He works hard and responds quickly to e-mails and sets him as an example for others to follow. Apart from his academic achievements, his simplicity and politeness makes him much more respectable. There are many things to learn from him from engineering research to everyday life. He is a great role model for everyone and I am very proud to be one of his students.

Through his paintings he has shown that he is a "Drawing Guru" in addition to being a "Drying Guru". Those who have taken dinner at his home will know that he is also great in cooking.

Sir, May God show his choicest blessings on you and your family..

Karthik SomaSundaram
NUS, Singapore

Prof. Mujumdar

First of all, I would like to express my sincere gratitude to Prof. Mujumdar who has been guiding me through my research, giving motivation and enlightenments not only for research but also for my daily life. He is a really nice, wise and smart mentor. It is truly an honour to be his student.



Prof. Mujumdar is one of the greatest scientists and engineers this world has ever had. He has made outstanding contributions to the scientific world especially in drying technology, for which he is crowned the Drying Guru. As his student, I am amazed by his broad knowledge, creativity, innovation and writing skills.

I remember the first time I saw his paintings was in a TPR group meeting. I was amazed by his paintings. They were really beautiful. It was difficult for me to believe that Prof. Mujumdar with his hectic activity could draw such beautiful paintings. He is really a genius and highly efficient.

Besides being a great scientist and a good artist, Prof. Mujumdar is also a wonderful chef. He is excellent in preparing delicacies. I feel lucky that I get to taste his delicious delicacies when he invites us for lunch in his home. What a wonderful personality, great in science, good in arts and excellent in cooking!

Jundika Candra Kurnia
NUS, Singapore

Professor Arun Mujumdar (widely known as the Drying Guru) is a branded figure in international domain. One major facet to his eminent personality is his art. ASM is a great scientist and an artist. ADL members always had wonderful experience about his artistic thinking & wonderful paintings in the form of self-made season's greeting cards. ADL members are privileged to have fruitful discussions with him regarding the global drying scenario. He is always generous to share his vast international experience with us. Another interesting element which we admire about him is his knowledge of economics and finance. He is also an economist and has up to date information on global economic trends.

His contribution to ADL and ICT, Mumbai is immense. He has been a major part of all the events organized by ADL, right from Drying workshop in 2001 to the 16th International Drying Symposium held very successfully in November 2008 in Hyderabad – India.

It was always nice to listen to his thoughts & ideas not just on global R&D but also on different issues such as global finance related matters. An amazing blend of research and artwork make him a great artist. Perseverance and persuasion of passion have made ASM a benchmark for every budding professional. ADL is fortunate to have his timely guidance and support. Nevertheless it is worth mentioning his better half Purnima who stalwartly supported ASM in his endeavors. We are sure he will get recognition as an artist ASM as well in the epoch to come and wish him all the best for his artistic journey ahead.

**Bhaskar Thorat and Advanced Drying Laboratory
ICT, Mumbai - India**



From M3TC Family

I remember some time last year, in one of our many amiable conversations, our thoughts ventured towards our views on the art of drawing. The discussion eventually led to the fact that our very own President of NUS, Prof Tan Chorh Chuan was also interested in the arts, or more specifically in the area of landscape drawing. I shared with you a particular



landscape drawing that was drawn by Prof Tan and to my utter disbelief, you managed to replicate the piece within a mere half an hour; even Prof Tan was impressed with the details, strokes and level of similarity of the art piece. Landscape drawing is an intriguing area of study as it requires the understanding as well as mastery of perspective, utilizing light and shade to create varying degrees of details and abstractions on a canvas. This is no doubt displayed in the masterpiece here as well as your many works.

Landscape changes over time, but my appreciation to you will be eternal. Thank you for your selfless contributions all these years which had led to the current success and achievements of M3TC. May you have a fantastic birthday and many many more to follow!

Dr Joshua Kuma



It is amazing to feel how the years flow. There are so many things to share, filling the river of our lives, that words are useless. It is important to feel the friendship from Arun, always close, always right... and also Purnima, so active and friendly, we never forget her either. Their house is the world and their friends are countless. The field of Drying ,and his activity, has been like a football stadium where he plays making friends as the most important goal. The relevance of Drying Technology and IDS Symposia would never attain the heights where they are now without the dedication, effectiveness, and fair play of Arun.

Arun, the river of your life flows full of good things, one of the most important the large international friendly community you created and also bringing Drying to an unprecedented level of knowledge and activity.

All the best to you and Purnima wishing a pleasant flow until the sea.

**Antonio and Remedios Mulet,
Spain**



To Dear Prof. Arun,

It gives me immense pleasure when I think of you. Although I have met you very briefly but the impact is everlasting. Around you, I found there was always an atmosphere, very much filled up and dominated by extremely high academic standards of learning. Even the brief moments incentivize the whole audience. It looks like there is so much to do still in R&D and we all get energized. That is your charisma and I feel so happy about it. The thought of small moments shared with you make me extremely glad.

Being an alumnus of ICT (earlier UDCT and UICT), Mumbai, I feel proud of your talent, merit and achievements in the arena of Drying. You are an icon in this area of research that the world recognizes and it has enriched from your dedication. I admire the efficient, fast and very effective mode of communication that you possess and which has characterized your lifestyle. It is beyond my imagination that an individual could meet and perform in such great style. Moreover, in you I find that art & science have met in perfect balance. I admire and respect all these great qualities that leave a distinguishing mark of your own.

On your 65th birthday, my Heartiest Congratulations to you and Purnima. Many many Happy Returns of the Day. With regards and best wishes that we may cherish your company and accomplishments in times to come.

Prof. Narendra Narain
Federal University of Sergipe
Aracaju, Brazil