



Chartered Colourists

SDC EC 12th International Conference

Welcome

In this introduction I will try not to duplicate what is covered for you to read in detail elsewhere, but I do recommend you read all of the content of this *Colourist* edition. It contains an enthusiasm that I hope will leap out of the printed word and images. In the past I have made repeated reference to: *"Focus, Inclusion, Effectiveness and Collaboration"* at the SDC and this copy really does show how we are achieving this and will go on achieving this.

The Chair of the SDC Board talks about a recent Staff – SDC Board Strategy Day, that was both well attended and enthusiastic about where the SDC is heading and the developments that are coming on line, starting now. There is a collective enthusiasm for what is being created by the SDC for the future and available starting now. This is something I was very keen to convey at a recent visit to Perkin House by the Worshipful Company of Dyers and a few days later when I attended as a guest at their annual Swan Dinner. We have a dynamic and active SDC for those interested in colour everywhere to engage with.

You will also read of SDC activity, covering different age groups and locations around the world, as well as in different ways. Just prior to writing this it was a pleasure to listen to two SDC Colour Experience staff delivering excellent communication about what we do in colour on a radio broadcast. I hope the contents of this *Colourist* make you even more proud to be a SDC Member and, if you are reading this as a non-member, then perhaps now is the time to join and be a part of what the SDC is developing in the world of colour. If you go to our website then you can join now – you will be very welcome if you do so.



Graham Clayton
Chief Executive



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Cover image: Livery Company Apprenticeship Scheme recipients (Image: Phil McCarthy)

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Update from the Chair



Your Board has been involved in two significant meetings since my last update to you. The first of these was a working day with

the staff team outlining to us, amongst other projects, their operational plans for the launch of our new learning platform and with it the availability of the Colour Physics module of our Associateship qualification.

We were left in no doubt as to the commitment of our team to this historic development and to its value for the coloration industries. Readers will see the promotional material detailing how anyone interested in gaining our ASDC qualification from a suitable starting base (eg our TCC qualification) will be able to progress to the examination along a learning timeline which will see them selecting the appropriate modules all of which will be examined and all maintaining the high standards the SDC set. The NARIC recognition that the ASDC qualification is of an equivalent level to an honours degree underlines the standards expected of our students and the learning material we will be providing.

This was the second staff/Board working day I have been involved

in. At the 2016 day we saw the birth of the concept of the Lifelong Learning Pathway for members and the subsequent 2017 Development Plan which mapped out the resource implications for the Board to take into the 2017 budget.

Our 2017 staff/Board day will again not only provide the basis for our Development Plan revisions but also underscored the value of our committed staff team to the measurable delivery of our charity and the aims of our Royal Charter.

The second significant meeting for us came the next day in the shape of a full Board meeting. In the agenda item relating to the previous day we were unanimous in wanting to record our thanks to the staff for work they had put into the presentations they made. The CEO would be coming to the November Board meeting with the updated Development Plan.

The September Board meeting, was like the June one, quite a hardworking meeting covering diverse items ranging from the updated management accounts, the approval of the minutes of the 2017 AGM, the opportunity for us to welcome Dr Susan Hulbert to the role of Education Manager, the use of our Teamworker website to introduce relevant items for initial discussion/information and the workings of MailChimp for our wider

communications.

On the governance front the Audit Committee continues its vigilance of our Rules and By-laws and outlined its plans for the review procedures it would be implementing. Our attention was also drawn to the lessons we could learn from press reports into the mismanagement of one high profile charity.

The CEO and our President had recently been involved in a key meeting in India which was reported to the Board and provided the background to the updating of the Memorandum of Understanding between SDC and SDC EC (the Indian Educational Charity). India, as a major manufacturer of colours and of dyed textiles, is seen as a priority for the wider promotion of our online teaching and learning options.

SDC Board minutes are, once approved and after only the essential redaction of sensitive information, published in the Members' area of our website. I heartily commend readers to make regular visits to the SDC website and to click through the many links that lead to some very interesting and informative papers.

Thanks for your support in 2017.

Geoff Rudkin CCol FSDC
Chair of the Trustee Board
chair@sdc.org.uk

Welcome to SDC's new Education Manager

We are pleased to welcome Dr Sue Hulbert to the SDC staff team. Sue joined us in September, following the departure of Cat Blackwell. We asked Sue to tell us about her background: 'After 25 years of teaching from KS1 to PhD, from Primary Schools to Universities, I find myself as Education Manager of SDC. I am, in scientific terms, essentially a Biochemist and, in teaching terms, a specialist in independent learning strategies and assessment. I am looking forward to

applying my skills to the development and delivery of the professional coloration courses available through the SDC.

The great loves of my life are my children (two), dogs (three), cats (three), sport in general (rugby league and golf in particular) and anything related to sports science. My core values are honesty, sense of humour and adaptability and I have thoroughly enjoyed my first few weeks of working with a team that seems to have the same principles at its heart'.



Sue can be contacted at:
sueh@sdc.org.uk

Colour Experience update

Scarborough Engineering Week

The Colour Experience team headed out to raise awareness of careers in textiles at the Scarborough Engineering Week which is an annual event to promote careers in STEM (Science,



Technology, Engineering and Maths) for primary and secondary pupils. Young people were inspired by the 'Different Dyes for Different Fibres' interactive demonstration kit which never fails to leave an impression. Textiles samples donated by Foundation and Textile Coloration Certificate students were also on display to encourage conversations around textiles that extend beyond the clothes they wear. The team discussed the variety of roles there are working within the textile industry and the opportunities for young people.



Paint with Light

Light Night Leeds is an annual city-wide cultural explosion of art installations, performances, technology, music, talks and dance. The entire city was illuminated for two nights and the Colour Experience team were lucky enough to be invited to participate once again. Taking up residence in the Merrion Centre with an inflatable dome, participants were invited to take part in a five hour live light painting

experience. Young and old alike enjoyed creating their own artworks which were projected inside and outside the dome. Visitors also had the chance to make their own visual illusions. It was great to see several members there – thanks to all those who came along.

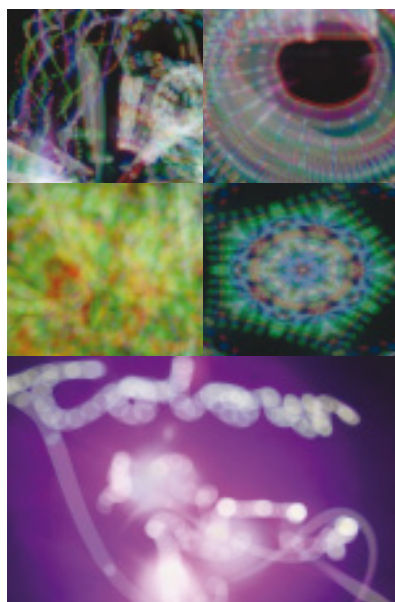
"A huge thank you and congratulations for helping to deliver such a fantastic event for Leeds. The response from the public has been overwhelming, with many people calling it the 'biggest and best Light Night Leeds ever'. You created some truly memorable and inspiring work, and we are proud to have showcased such a diverse range of talent to audiences across our city." Abbe Robinson, Light Night Leeds

Colour, Light and Health

As part of Light Night Leeds, SDC's North of England region hosted a talk by SDC's President-elect Prof Stephen Westland entitled 'Colour, Light and Health'. The auditory system has two functions (hearing and balance). Similarly, the visual system also has two functions (sight and non-visual function). Light affects and influences us in ways that we are not consciously aware. Prof Westland talked about how the colour of light influences us in a whole range of ways including our alertness, choices, performance and emotions.

For more details of Prof Westland's talk, visit our blog:

(<http://colour.sdc.org.uk/>) for a review by North of England Hon Secretary Adam Pursell.



Livery Company Apprenticeship Scheme



Livery Company Apprenticeship Scheme ceremony (All images: Phil McCarthy)

Edward Naylor (Bulmer and Lumb) and Alana Williamson (Leeds University, previously Bulmer and Lumb) were awarded their certificates for completing the Textile Coloration Certificate with sponsorship and support from the Worshipful Company of Dyers.

On Monday 2nd October at Plaisterers' hall in London they were presented with their certificates by The Rt Hon the Lord Mayor, Alderman Dr Andrew Parmely. They were introduced by the Prime Warden of the Worshipful Company of Dyers Gerald Rothwell.

The Livery Companies Apprenticeship Scheme was established as a not-for-

profit company in 2012. A government grant of £1.005m was awarded to fund the training of 52 apprentices from nine professions through the scheme and this grant was to be match funded to at least £0.85m, the pro bona contributions have been much higher.

Edward is continuing his studies with SDC and undertaking the new, revised ASDC syllabus delivered by the SDC through its virtual learning environment (VLE) www.colour.network.

Alana has made the decision to take on full time education and has now started her degree course with Leeds University, School of Design.

Both of them have progressed



significantly educationally, and professionally in the three years they have been undertaking FTCC and TCC and everyone at the SDC wishes them and all the other students every success in their further studies.

Livery Company visit to SDC

The Prime Warden of the Worshipful Company of Dyers, Gerald Rothwell and the Renter Warden, Nigel Black with Dr Mike Bartle and Dr Roger Wardman also representing the Company, visited Perkin House in October.

Having provided funding for the development of the new revised ASDC and its delivery on a virtual learning platform (VLE) colour.network this provided an opportunity to update on the development and to provide background to a much wider development of the Lifelong Learning Pathway.

Following a presentation on the topic and lunch the Dyers were accompanied by the Chairman of the Trustee Board Geoff Rudkin, Chairman of EQAB Dr Roger Wardman and the Technical Director Andrew Filarowski on a visit to Bulmer and Lumb for a tour which was conducted by Paul Hamilton, technical director and Edward Naylor, who has just started his ASDC education with SDC.



left to right: Alana Williamson, Gerald Rothwell, Edward Naylor



International Design Competition

Sri Lanka Conference / November 2017

At time of writing we are looking forward to our second Sri Lankan international conference of 2017. This is linked to the development of a new SDC region in Sri Lanka. The conference focuses on design and manufacture for a circular economy and also hosts the grand final of the SDC International Design Competition 2017. Speakers include:

- Are you ready for the next Textile Revolution? James Carnahan, Global Sustainability Manager, Archroma Singapore Pte Ltd
- Why Sustainability Matters. Vidhura Ralapanawe, General Manager – Environmental Sustainability, MAS Intimates
- The Ten Threads of Sustainability. Mahendra Ariyapala, Regional Manager – EHS and Sustainability, American and Efid (Pvt) Ltd
- The Brandix Perspective. Darpan Shukla, Heads of Fabrics, Brandix Group
- Plus a panel discussion

The event is chaired by SDC President, Professor Philip



Yeung from Hong Kong. We will bring you a review of the event in the next issue of *The Colourist*.

With thanks to our sponsors: Colorant Limited, Archroma, A&E, Ramp Impex.

Supporting organisation: Sri Lanka Apparel.



2018: Competition Launch

We are pleased to announce the launch of the SDC International Design Competition 2018. The competition brief is now available, along with a range of free online educational resources. The theme for 2018 is 'colour communication'.

Archroma is the major sponsor for the 2018 competition. The links to the Color Atlas by Archroma® are key to both the competition theme and the accompanying educational package. Students must use or reference colours from the Color Atlas in their entry.

With a global textile supply chain, communication can stretch over different continents and languages so using the right tools is key. Colour plays an important part in this process and being able to communicate this colour through the supply chain efficiently and effectively is vital.

Selecting colors from the Color Atlas by Archroma® streamlines communication by having engineered colour standards and related technical

information readily available to everyone in the supply chain.

What to do next

1. Download the competition brief from the SDC website (sdc.org.uk)
2. Visit SDC's new Colour Network (colour.network). Create a free account which will enable you to access the free educational videos.

3. When you've watched the videos, go to the online version of the Color Atlas (<https://coloratlas.archroma.com/>). Register for a free account which will enable you to create a collection to store your colours.

For further details please visit the website, or email: marketing@sdc.org.uk.



Chartered Colourists

The following professionally active members are entitled to describe themselves as Chartered Colourists and are encouraged to maintain a high level of professionalism in their field of expertise and develop their career through Continuing Personal or Professional Development (CPD).

ASSOCIATES: CCol ASDC

Ahmad, Mubashar
Ahmed, Syed Iqbal
Amin, Nabeel
Anderson, David Watson
Andrews, Robert
Arana, Clare Louise
Barton, David
Bates, Ian
Bentham, Martin
Bentley, Andrew David
Bide, Martin John
Blackburn, Richard Simon
Boardman, Christopher
Bolton, Susan Margaret
Booth, Kim Vincent
Botterill, Adrian Michael
Boulter, Georgina Helen
Brooke, Matthew John A
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Chan, Ching To
Chan, Chun Kit Thomas
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Cheung, Tsz Lock Vien
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Chiu, Man Sze
Choi, Pui Shan
Chong, Chau Lam
Chong, Patrick Tak Fu
Chong, Kuen Chor
Chou, Wan Fung David
Chow, Hin Kong
Chow, Wing Bun William
Chu, Wang King
Chu, Fu Wah
Chui, Kam Tak Jeff
Chui, Charles Chit Kwong
Chung, Fuk Lun Allen
Chung, Yiu Sing Sidney
Chung, Chi Shing
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Collins, Paul

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Habbu, Vijaykumar Gururaj
Hall, Stephen Karl
Hamilton, Paul
Hawkes, Richard Alan
Hayes, Adrian Paul Nicholas
Hetherington, Peter Warren
Heyes, Paul Stuart
Hicks, Herbert James
Ho, Kwok Keung
Ho, Kwong Yu
Ho, Kwok Yiu
Hoggett, John
Holdstock, Christine Ruth
Horton, Francis John
Hughes, David William
Hunter, Stanley Keddle
Hussain, Tanveer
Jagger, Helen Elizabeth
Jarag, Krishna Jagannath
Jepson, Graham Andrew
Jiang, Hong Jane
Joshi, Hima Devesh
Kan, Chi-Wai
Kearns, Michael Henry
Kirby, Steven Thomas
Kwan, Ngok
Kwan, Siu Kwong Billy
Kwok, Chi Hung Allan
Lacey, Julie Ann
Lai, Kui Sing Walter
Lakhanpal, Rajesh
Lam, Kin Hee
Lam, Chun Wai Jack

Lam, Yuk Ming Calvin
Lam, Siu Wing
Lam, Yung Ming John
Lau, Lai Ngo Holly
Lawton, Samuel Peter
Leather, John David
Lee, Andrew Nigel
Lee, Tsz Chiu Wallace
Leung, Chi Wa
Leung, Chi Wai Tony
Lever, Michael Andrew
Liu, Kam Wing Eric
Liu, Pik Kwan
Lo, Yau Leung Philip
Luk, Yu Chung Patrick
Lye, Jason
Maddison, Paul Michael
Mak, Chi Ming Franky
Mazengarb, Simon Andrew
McCaffrey, Sean
McLaren, Richard Paul
McPhee, Robert Martin
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Morel, Olivier Jean-Louis Xavier
Morris, Paul John Clement
Mulla, Rafiq
Murfet, George John
Murphy, John
Myring, Charles Robert
Naik, Subhash
Ng, Ka Lai Jennie
Ng, Wo Mau
Ng, Cheung Wai
Ng, Ching Yee
Ngai, Spike C M
Oldridge, Neil
Pariti, Sivaramakumar
Park, James
Parton, Keith
Paton, Ian Crawford
Paul, Roshan
Payne, Stephen
Peake, Charles Edward
Poon, Chi Cho Leslie
Ravenscroft, Paul Stuart
Rodger, John David
Rogers, Mark Alexander
Ross, Alan Mark
Rudkin, Geoffrey Dennis
Sah, Roshan Kumar
Sit, Suk-Ngan Rose
Siu, Linus Yuk Chiu
Smith, Timothy
Smith, David Bancroft
Smith, Graham

Smith, Peter Graham
Socha, Kevin Leon
Stanton, Peter Roy
Stewart, Strachan Kerr
Strong, Kathryn Frances
Sullivan, Paul Jason
Sultan, Kuldeep
Sun, Sok Sheung Suzanne
Tam, Kwok Man Billie
Tapley, Kelvin Nicholas
Tattersall, Geoffrey Joseph
Tayyab, Hafiz Muhammad
Thompson, Andrew Philip
Thompson, Noel
Tindal, Alec Stewart
Tong, Siu Lai Elizabeth
Towns, Andrew David
Traynor, James
Tsang, Wai Hing Benny
Tse, Chi Chung Simon
Tsui, Sui Mei Shadow
Tung, Vicky Suk Yee
Tyahcootee, Moorooogen
Vagal, Gautam Ranjan
Varey, William Andrew
Wagstaffe, John Robert
Walker, Stephen
Wang, Jian Ming
Warden, John Raymond
Welham, Arthur Charles
Westland, Stephen
Whitehead, Peter John
Wilkinson, Ann
Williamson, Stuart Bradley
Wong, Hiu Fan William
Wong, Tsz Fun
Wong, Kai Man
Wong, Chiu Yeung
Woodward, Christopher
Wragg, Peter John
Xin, Haozhong John
Yam, Shiu Yin Calvin
Yang, Pui Chi Brenda
Yare, Mark Andrew
Yau, Wai Kwong Havel
Yeung, Chuen Kwai Patrick
Yeung, Nang Chong Michael
Yeung, Kwok Wing Philip
Yuen, Chun Wah Marcus
Yung, Hon Kay Terence
FELLOWS: CCol FSDC
Agnihotri, Kishore Gajanan
Aspland, John Richard
Best, Janet Sandra
Bhate, Prakash
Bide, Martin John
Blackburn, Richard Simon
Bolton, Susan Margaret
Campbell, Malcolm
Cawood, Gordon
Chong, Patrick Tak Fu
Choudhury, Asim Kumar Roy
Christie, Robert Matthews
Collishaw, Peter Stanley
Durrans, John

Easton, John Richard
Fang, Kuanjun
Grancaric, Ana Marija
Gulrajani, Mohan Lal
Gupte, Vilas
Habbu, Vijaykumar Gururaj
Hansford, John Alan
Hanson, John Keith
Holdstock, Christine Ruth
Holme, Ian
Kamat, Sanjiv Yashwant
Kan, Chi-Wai
Keaton, James
Kheterpal, Vinod
Lam, Yuk Ming Calvin
Lam, Yung Ming John
Leung, Sheung Wai Walter
Mahapatra, Nandan
McCaffrey, Sean
Mehra, Anil R
Murphy, John
Nimkar, Ullhas Manohar
Panchmatia, Pankaj R
Park, James
Parton, Keith
Patel, Sudhaker Bhailalbhai
Paul, Roshan
Prasad, Anjani
Provost, John Reginald
Rao, Gudiguntla Venu Gopala
Rippon, John Anthony
Rudkin, Geoffrey Dennis
Sabnis, Ram
Sane, Vijay Y
Sankaran, V
Saraf, Naresh Mahavirprasad
Sekar, Nagaiyan
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Stones, Roy
Straughan, Richard Willey
Straughan, Elizabeth Jane
Tanna, Mahendra Nanji
Thombre, Pravisumit
Trivedi, Prabhat Kumar
Tyndall, Robert Michael
Wainwright, Mark
Welham, Arthur Charles
Westland, Stephen
Wilkinson, Stuart Peter
Williams, Susan Ruth
Williamson, Stuart Bradley
Xin, Haozhong John
Yeung, Chuen Kwai
Yeung, Kwok Wing Philip
Yuen, Chun Wah Marcus
The following retired members are entitled to describe themselves as Chartered Colourists, however, they are no longer professionally active.
ASSOCIATES: CCol ASDC
Abel, Adrian George
Acton, Brian

Adcock, Peter Rodney
Adshead, Kenneth
Akdogan, Selim
Anderson, Lewis Charles
Ardern, Marjorie
Atchison, Brian Anthony
Baker, Anthony John
Baker, Geoffrey
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Barker, David John
Barks, David Frederick
Barras, Kenneth
Beardsley, Jeffrey Zaph
Beckwith, Norman Roy
Belshaw, Roy Lester
Bilbie, Harry
Brennan, Philip Gerard
Browne, Noel McMillan
Burton, John William
Burtonshaw, Donald
Byrne, Vincent
Chan, Kwok Keung
Chan, Ka Ku
Chan, Paul Pook
Cockroft, Steven
Condon, Brian Frederick
Conroy, Ian Stuart
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Dyson, John Edward
Eddy, Ronald Charles
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Finking, John Richard
Fung, Walter
Gee, Anthony Thomas
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Greenan, Enid
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Harding, Ronald Steele
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Herod, Steven
Hodcroft, Barry Arthur
Hook, John Adrian
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Jones, Michael
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Laidlaw, Alan James
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Lau, Kwok Ching
Leadbetter, Peter William
Lee, Yuen-Hoi David
Lester, Frank G
Leung, Ping Yiu
Liu, Kam Wing

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 McIlmoyle, Adrian Joseph
 McIlroy, Thomas Andrew
 McKeand, Alan Henry
 Metcalf, Edwin George
 Middleton, John Falconer
 Morris, Sheila Joan
 Morris, John Leslie
 Morrison, Iain
 Morton, Nigel Geoffrey
 Mycroft, Paul Steven
 Newton, Eric John
 Nutter, Malcolm
 O'Hare, B J
 Oldroyd, John Michael
 Potter, Keith John
 Radford, John Anthony
 Randle, Stuart
 Redfern, Geoffrey Alec
 Sadowski, Jan Z
 Santokhi, Gopal Krishnan
 Scrimshaw, Maxwell John
 Sellars, Brian
 Senior, Hubert Leslie
 Senior, Colin
 Sharp, Jack
 Shenton, Alan
 Sin, Kwan Moon
 Sirisena, Cyril Sathyananda
 Smedley, Graham
 Smith, Jeffrey Valentine
 Swanston, John Bennet
 Taylor, Derek Watson
 Taylor, James Martin
 Tsui, Sum Wing
 Tsui, Yick Leung
 Tsun, Daniel Shu Chiu
 Ward, Colin William
 Wilkinson, John Malcolm
 Wong, Chau Yu
 Wong, Kam Wah
 Woods, Kenneth Frampton
 Woodward, Adrian Thomas
 Yeung, Hok Wo Henry

FELLOWS: CCoI FSDC

Acton, Brian
 Amin, Shirish Chandubhai
 Arbuckle, Alexander Weir
 Baker, Geoffrey
 Baldwinson, Terence Michael
 Bartle, Michael Glover
 Beal, Walter
 Blackburn, David
 Booth, Gerald
 Campbell, Brian
 Chan, Ka Ku
 Chan, Kwok Keung Alfred
 Cheung, Kai Shing
 Corbett, John Frank
 Dawson, John Frederic
 Deshpande, Ramesh
 Diggle, Peter Anthony
 Duffield, Peter Anthony
 Elliott, Michael Stanley
 Hall, David Michael

Hallas, Geoffrey
 Harold, Richard
 Hawkyard, Christopher John
 Heywood, Derek Wallwork
 Ingamells, Wilfred Charles
 Ladchumananandasivam, Rasiah
 Laing, Ian Geoffrey
 Lam, King Man Clement
 Landmann, Axel Wolfgang
 Larkins, Trevor Harry
 Latham, Francis Robert
 Lau, Kwok Ching
 Leadbetter, Peter William
 Liddiard, Alan George
 McDonald, Roderick
 McDowell, William
 McIlroy, Thomas Andrew
 Moore, Bernard Franklyn
 Nadiger, Guddo Shivarao
 Newton, Eric John
 Peters, Arnold Thornton
 Purves, John Alan
 Reynolds, Derek
 Richards, John
 Riordan, John Eric
 Roberts, George Andrew Francis
 Samuels, Arnold
 Santokhi, Gopal Krishnan
 Sargeant, Christopher John
 Scotney, John
 Scrimshaw, Maxwell John
 Valldeperas, Jose
 Wardman, Roger Haig
 Whittaker, James
 Winkler, Andrew
 Wyles, Derek Henry
 Yeung, Hok Wo Henry

The following are Associates and are working towards Chartered Colourist status

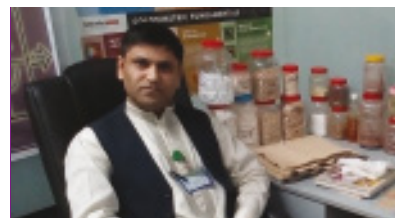
ASSOCIATES: ASDC

Borisova, Anna
 Chakrabarti, Ruma
 Choi, Wai Pang Brian
 Debnath, Kushagradhi
 Gupta, Sumit
 Hennadige, Randika
 Huang, Lei Vicky
 Lee, Sze Tat Andy
 Malaviarachchige, Sanjeewa Priya
 Malaviarachchi
 Meksi, Nizar
 Patel, Punita
 Paul, Subrata
 Pulsay, Sachin
 Ramakrishnan, Reshma
 Sanware, Deepak
 Sheikh, Javed
 Shing, Vincent
 Walker, Victoria
 Wang, Cui Hua Maria
 Wong, Ka Wai Kevin
 Yiu, Chi Pang William
 Zhang, Huachun Alex

The following are Fellows and are working towards Chartered Colourist status

FELLOWS: FSDC

Athalaye, Ashok
 Bhargava, Subhash
 Gianchandani, Dilip
 Kay-Williams, Susan
 Prayagi, Kiran
 Srinivasan, NSK



SDC Bursary success

SDC member and bursary recipient Mr Shahid Adeel has announced that his project has been accepted under the scheme of PhosAgro/UNESCO/IUPAC research grant in green chemistry for young scientists. The project entitled "Modulation of Radiation Induced Green Dyeing of Natural Fibres using Plant Derived Natural Dyes" will be run by Mr Adeel, a PhD Scholar in Applied Chemistry, and Dr Shumaila Kiran, Assistant Professor Applied Chemistry, Govt. College University Faisalabad, Pakistan. Only seven countries were awarded funding under this scheme. The award was presented in a ceremony held earlier this year at the St Petersburg International Economic forum. The work forms part of Mr Adeel's PhD Studies. He was granted an SDC bursary to work on natural dyes.

Are you eligible for an SDC bursary?

As an educational charity, SDC is committed to supporting people in their colour education. We have some funding available to offer a limited number of bursaries each year.

The submission dates are: 31st December and 30th June.

The two funding streams are:

- Main Bursary (Up to £500): for undergraduate and postgraduate students on a relevant course.
 - ASDC Bursary (Up to £250): for students registered for the ASDC examinations.
- For further information please email: edu@sdc.org.uk or visit the website.

SDC EC 12th International Conference

Smart solutions in processing... Profitability the key!

SDC EC's 12th International Conference took place in September in Mumbai and was attended by over 200 delegates from brands, process houses, retailers, industry and educational institutions.

Mrs Lipika (Hon Secretary, Mumbai Chapter) was ably supported by Student Representative, Ms Ridhi as Master of Ceremonies of the day. Hon Chairman, Mr Sai Ganesh formally welcomed all the guests, speakers, panellists and the delegates. He introduced the theme and explained the programme for the day.

The day started with the presentation of Medals and qualifications. The bronze medal was awarded to Ms Rajkumari Bhatia, Head of Department, B D Somani Institute of Art and Fashion Technology, India for her enthusiastic service of the Society in India in relation to the SDC International Design Competition. FSDC certificates were presented to Mr Subhash Bhargava and Mr Srinivasan Nattanmai.

Dr Graham Clayton, CEO, SDC shared his view and plan for 'SDC – A Way Ahead: Global Vision'. The keynote address was given by SDC President, Prof Philip Yeung on Sustainable Manufacturing: Capitalising on Real-time Analytics. He shared his presentation on water footprint and analytics. Water, one of the most important resources in the world, becomes a scarcity due to population growth and climate change. In addition, the textile manufacturing industry is under pressure because of requests by the government, brands and retailers to control or even reduce the water consumption in its production

processes. The industry has a crucial need of a clear and measurable system for its water footprint calculation. On the other hand, there has been an explosion of data in the manufacturing industry. However, vast amounts of data can lead to a challenge in analytics, ie how do we systematically organise, analyse, and utilise the vast amount of data to improve water efficiency, equipment performance and business operations? Best-in-class manufacturing companies are already succeeding in managing data, mining it for useful insights and utilising it to transform their businesses. Activity-based Water Footprint Modelling of Textile Manufacturing Processes (AWFM) was developed as a customised real-time monitoring programme to monitor, manage and account for the total water footprint as well as water intensity of individual products in the textile industry. It provides a clear understanding of the water footprint of the textile and apparel manufacturing processes (from fresh water to polluted water), especially for those extremely water-intensive and polluted processes like dyeing, printing and finishing. It is suggested that this model can serve as an aligned practice for water footprint calculation among the total supply chain. This study will give an account on the theories and methodology of the model. Real industrial water footprint data were collected from three manufacturers in China, and their product water footprint were presented to demonstrate the feasibility of the said model.

The keynote address was followed by technical sessions.

These sessions featured the input of six technical presentations and four panel discussions including representatives from organisations including Archroma, Jay Chemicals Industries, DyStar, Atul and Kothari Info-Tech. Renowned designers like Archana Kocchar and Kanika Bawa were also



Conference committee and guests

part of the panel discussion. The day brought together leading experts and participants from Switzerland, Germany, UK and India. The conference proved an excellent opportunity for networking and sharing experiences in development.

Technical Session A started with a presentation on technical textiles and special finishing: Eco-advanced functionalisation concepts by Mr Michael Schuhmann, Archroma Ltd.



Michael Schuhmann

Ecological compliance and the sustainable use of resources have become primary elements for innovation and product development in most major industrial countries. The regulatory pressure is increasing especially in developed consumer markets, giving new challenges to textile manufacturers as well as marketers of ready-made garments.

The technical textile market segment is historically more performance driven and was hence less affected by international campaigns targeting large apparel brands, as the use of chemicals is absolutely necessary to achieve defined functionalities with the highest requirements on fastness, which commonly are expected to last for the lifecycle of a garment. Therefore high performance chemistry is needed, which



SDC President Philip Yeung

has evoked environmental concerns regarding air and water emissions as well as related to the health and safety of the end-user. Archroma has addressed these changes with various new concepts ranging from ultralow emissive water, oil and chemical repellents and zero-formaldehyde coating polymers to formaldehyde, halogen and heavy metal free flame retardants.

The diverse range of eco-advanced chemicals is complemented further by a broad portfolio of pre-treatment chemicals and dyes, which are the basis for a novel approach to enhanced ecological compliance in textile manufacturing founded on Archroma's unique ONEWAY® concept, which combines chemical knowhow with process and market expertise.



Legislation and sustainability panel

This presentation was followed by a panel discussion on 'Legislation and Sustainability - Brands Perspective', moderated by Dr Sanjiv Kamat, Vice President, Kothari Info-Tech Ltd. He introduced the panel members: Mr Manohar Samuel (Birla Cellulose), Mr Rahul Bhajekar, (GOTS), Mr Abhishek Bansal (Arvind Mills), Mr Suresh Parmeswaran (Zodiac Clothing Company Ltd) and gave an overview of the topic. They debated on the steps being taken by the brands to make each and every step of their processes sustainable. There was a question about why local brands were not having their own norms, however, it was concluded that with the availability of so many



Karun Tyagi

legislations; there was no real need to reinvent the wheel. On local legislations and laws, there is a push on formulating and enforcing required from the government.

Technical Session B commenced with a presentation on 'Profitable and Sustainable Textile Processing through Probiotics' by Mr Karun Tyagi, Vice President – Sales with Proklean Technologies Pvt Ltd.

The textile industry is a major consumer of water for various wet processing operations and produces high volumes of effluent wastewater. The effluent is characterised by strong organic and inorganic compounds leading to high values of COD, BOD and TDS. The use of a new class of non-toxic and bio-degradable textile auxiliaries, which are not enzymes and have been developed using a consortium of probiotic microbes, to bring down the pollution footprint were discussed. Data compiled from multiple trials and usage data from textile processing units in India show a 20-30% reduction in water consumption, 35-50% reduction in COD and BOD and up to 50% reduction in TDS when the processing was carried out using a combination of a pre-treatment agent, a levelling agent and a soaping agent. The quality parameters of the processed fibre, yarn or fabric were found to be comparable with those produced using standard chemicals. This new class of auxiliaries has the potential to positively alter the economics of sustainable textile processing practices including substantial savings in the cost of effluent treatment.



Bertram Seuthe

The second presentation of this session was by Mr Bertram Seuthe, Global Business Development, Marketing Coloration, DyStar Ltd,

Germany. His presentation on "Innovative Textile dyes and Sustainable Processing Technology" took a closer look at sustainability in textile dyes and auxiliary manufacturing with a focus on three segments.

- Innovation: Innovative new Levafix®, Remazol®, Indanthren® and Dianix® dyes
- Technical support by process optimisation: Saving resources with Cadira® processes for reactive, vat and disperse dyes
- Marketing: Eliot® an electronic online tool with detailed information on properties of DyStar dyes like fastness, process suitability and compliance with RSL lists



Digital transformation panel

Panel Discussion 02 – 'Digital Transformation - Online Marketing' was moderated by Mr Dilip Raghavan, Managing Director, Colour Publications Pvt Ltd. He introduced the panel members: Mr Anjani Prasad, Archroma India; Mr Punit Krishna, Chemarc.com and Mr R Ajay, Future Lifestyle Fashion Limited.

The discussion initially revolved around the scope and opportunity that online marketing presents to the brands (B2C). Then the focus came to why online ordering was not prevalent in the dyes and chemicals business. This was mainly attributed to the fact that this selling is normally associated with a lot of technical service in terms of shade matching or finishing. But progress is being made by a lot of companies to make re-orders online.

Technical Session C opened with Panel Discussion 03 – 'Online Colour Matching Systems' which was moderated by Mr Dakshesh Desai, Director, Premier Colorscan Instruments Pvt Ltd. The panel members were Dr Ashok Athalye, Atul Ltd; Dr K R Desai, Department of Chemistry, Uka Tarsadia University, Surat; Mr Subhash Naik, Datacolor Asia Pacific (HK) Ltd.

Dr Desai shared his experience of the systems in the beginning of an era of Color Matching System in India. Dr Athalya and Mr Naik gave very good insights on the more recent ones.

A discussion took place about the online communication of colour. How colour can be communicated and how it can be interpreted was explained. The ease with which such information can flow across continents, cultures and language barriers. They also brought into the discussion, concerns regarding job cuts in the industry. It was argued that online colour matching will only shorten the timelines of communication, but actual matching has to be done anyway.



This was followed by a technical presentation by Mr Aditya Chandravarkar, Founder of Inkjet Forum India on Digital/Inkjet Printing.

Mr Aditya shared a preview about digital printing technology. After this he shared the market scenario of digital printing worldwide as well as the Indian scenario. He talked about the development and the nuances of various machines on the market.

The second presentation of this session was on 'Mills' Perspective - Legislation with regard to Sustainability' by Mr Alok Sharma, GM (Quality Assurance) of Ramkumar Mills Pvt Ltd.

Chemicals have become an integral part of our lives. We interact with chemicals from our birth till death. Currently the textile industry uses more than 8,000 chemicals to make about 450 billion m² of fabric sold annually around the world. It is estimated that 4 kgs of chemicals are used to make 1 kg of cotton. In the last 60 years, it was found that some chemicals and colorants used in the manufacture of textiles have a negative impact on human health. It was also found that many of the chemicals

and colorants are toxic and persist in the environment.

The evolution of legislation on chemicals used in textiles started with the formation of WHO and an initiative started by American and European countries by introducing regulation on DDT, Mercury and PCB – polychlorinated bi-phenyles in 1960. Then the initiation of several global treaties, protocols, declarations and conventions from the 1970s for regulating the use of dangerous chemicals. Then very important legislation - REACH - was enacted by the EU Parliament in 2006, which talks about the registration (with authorised agency: ECHA) of all chemicals used in the EU, evaluation for ecological and toxicological data followed by authorisation or restricted usage.

In 2011, the textile industry faced the toughest challenge with "Dirty Laundry," a report by the environmental group Greenpeace that claimed some organisations sourced their textiles from low-cost producers in developing countries while turning a blind eye to the pollution this generates. By November 2011, several major apparel producers and retail organisations had come together to form Zero Discharge of Hazardous Chemicals. ZDHC's members have committed to eliminating the release of toxic substances into waterways by 2020. Members include Adidas, Gap, H&M, Nike, Puma, and many other global brands and dyestuff and chemical manufacturers. How this legislation had affected textile production activities and how mills and wet processing houses are dealing with it was presented.

The third presentation was on 'A step towards a Sustainable Industry' by Ms Monisha Bhoopati, Brand Manager, Jay Chemicals Industries Ltd.

Ms Bhoopati shared the various



steps that an industry can take whether raw material usage or raw material procurement to the processes that can be adopted for making the industry sustainable. Then she touched upon resource management by saving and recycling of water and power. Various examples were shared to prove the points raised.



Designers' perspective panel

Technical Session D including Panel Discussion 04 – 'Colours – Designers' Perspective'. This panel was moderated by Mr Anjani Prasad, Managing Director, Archroma Ltd with panel members: Ms Kanika Bawa, Interior Architect and Lifestyle Designer; Mr Viral S Desai CEO of Zenitex Pvt Ltd, Mrs Bhamini Subramaniam, Designer and Proprietor at Abhinav Creations and Ms Archana Kocchar, the fashion designer.

The discussion was on the importance of colour for a designer and the way they would like to communicate this. The importance of a colour shade atlas was discussed by the designers and they expressed their wish to have the support of the local manufacturers of dyes to prepare these season wise fashion shade cards to support them. The sustainability aspect was also discussed, and how designers can spread awareness.

Hon Secretary Dr Suman Mundkur expressed the vote of thanks to speakers, special guests, supporters, delegates and volunteers at the end of an enthralling day.

Supporters: The conference was supported by Jay Chemical Industries Limited; Archroma India Pvt Ltd; Sharp Biotech Specialty India Pvt Ltd; Colourtex Industries Pvt Ltd; Dystar India Pvt Ltd; Colour Publications Pvt Ltd; Britacel Silicones and Atul Ltd.

For those reading *The Colourist* online, the presentations from the conference are available via the following link. <https://app.box.com/s/h0keztldlbe1ifv3s2k5sxea4jun6bmf>

Hong Kong

HKSDC has recently delivered a seminar for a major trading company based in Hong Kong. The presentation was delivered by Sharon Yeung, Committee member of HKSDC, and the Brand and Retailer Communication Manager in DyStar China Ltd. We asked Sharon to give an overview of the event:

"Colour gives the first image of the product to the consumer, helps to attract the eyes and express the message from the designer. It is also a main topic in quality assurance of the apparel industry like the lab dip approval and fastness rating. It is indispensable but some of the dyeing problems still cannot be solved easily nowadays although lots of new technology developed. In this workshop, we:

- introduced the basic dyeing concept, application method and parameters
- explained the character of dyestuff type and the corresponding fibre
- discussed the parameters affecting the dyeing result, eg water quality,



Sharon Yeung

dyestuff characters, auxiliaries, pretreatment, process setting, management

- investigated the common coloration problems and challenges

By understanding these, practitioners of the apparel industry may have better colour achievability by choosing suitable materials, dyestuff and process, thereby helping the communication through the supply chain".

New Members

Welcome to the following new Voting Member:

- Dr Jaideep Anant Dudhbhate, Consultant, India.

Please visit the members' area of the website for a list of all new members.

New company and college members

Welcome to the following new company and college members: Datacolor and Kumaraguru College of Technology.



Datacolor (www.datacolor.com)

Datacolor has an American heart, a Swiss soul and an international vision. Based in Lawrenceville, New Jersey (USA), our company is listed on the Swiss stock exchange with facilities and representatives in over 100 countries. Our colour management solutions are created and supported by passionate employees and certified to multiple industry standards.

For more than 45 years, our mission is to empower our customers to make objective, cost-effective and smart colour decisions that perfectly suit individual workflows. Over a million customers working in textile and apparel, paint and coatings, plastics, photography, design and many other

industries trust Datacolor solutions:

- Over 80 of the top 100 textile and apparel brands selected Datacolor solutions.
- More than 10,000 business customers rely on Datacolor instruments and software daily.
- Over 1 million photographers and creative specialists use Datacolor Spyder products.



Kumaraguru College of Technology

Coimbatore, India (www.kct.ac.in/) The Department of Fashion Technology, constituted in 2002, offers BTech Fashion Technology, MTech Apparel Technology and PhD programme under Anna University,

Chennai. BTech Fashion Technology has been accredited by National Board of Accreditation (NBA), New Delhi under Tier I Scheme of the Washington Accord for five years from 2014 which facilitates transnational recognition of degrees and mobility of graduates and professionals. The objective of the department is to equip the students with core competencies and skills in clothing technology and fashion and hone them as competent professionals for the apparel and fashion industry. The Department has strong links with the apparel industries throughout India.

The Department of Textile Technology was started in 1995, conducting BTech Textile Technology, MTech Textile Technology and PhD programme under Anna University, Chennai. The Department has well qualified and highly experienced faculty members. Well-equipped laboratories with modern facilities provide ample opportunity to the students to pursue their education.

SDC EC

SDC EC (India) Office Bearers, Trust Board: The SDC EC has appointed new trustee members for the year 2017-18.

The structure of Trust Board is as follows:

- Mr V R Sai Ganesh (Hon Chairman)
- Dr Suman Mundkur (Hon Secretary)
- Mr Vijay Sane CCol FSDC (Hon Treasurer)
- Mr Naresh Bhatt (Hon Trustee)
- Mr Anjani Prasad CCol FSDC (Hon Trustee) (UK Nominee)
- Dr Prakash Bhate CCol FSDC (Hon Trustee)
- Mr Ashok Dodhia (Hon Trustee)
- Ms Rajkumari Bhatia (Hon Trustee)
- Dr Ruma Chakrabarti ASDC (Hon Trustee)
- Dr Sivakumar Pariti CCol FSDC (Hon Trustee)
- Mr Sachin Pulsay ASDC (Hon Trustee and Chair of Mumbai Chapter)
- Mrs Lipika Nair (Hon Trustee and Secretary of Mumbai Chapter)

Two new trustees have been appointed to the SDC EC Board of Trustees. They are as follows:

Dr Sivakumar Pariti CCol ASDC



Dr Siva is the Global Technical Programme Manager at Sustainable Textile Solutions, Group Company of DyStar. He has experience of conducting training programmes on chemical management and various textile

processing and coloration modules, audits for environmental improvement, optimisation of processing and ZDHC compliance for brands and retailers and their supply chain partners globally. Former Chief Operating Officer of the SDC in India and former adjunct lecturer at UDCT. He has a PhD (Tech) in Intermediates and Dyestuffs from the University of Mumbai. Dr Siva has been associated with SDC from his university days.



Ms Rajkumari Bhatia, Bronze Medallist

Over the past two decades, Ms Raju Bhatia has been successfully heading the Fashion Department at B D Somani Institute of Art and Fashion Technology. She has spent 41 years in the field of fashion and fashion education. She graduated from JJ school of Arts, Mumbai. She has also been an active Fashion and Textile Trend Consultant to many textile manufacturers across India, strongly promoting the 'Make In India' concept over the last six years. She was awarded a Bronze Medal for her enthusiastic service of the SDC in India.

The first trustee meeting was held in August and the trustees decided to focus their collective energy to increase membership, especially students with more engagement of the students in the monthly lectures and workshops, in addition to the ongoing International Design Competition and Young Talent Competitions.

ISO meetings

The International standards technical committee meetings took place in October in New Orleans, USA. The SDC provides the secretariat for ISO TC38 SC1.

The ISO meetings were hosted by AATCC and ASTM. AATCC also hosted an evening reception which provided an excellent social focus for the 70+ experts from 11 countries: China, France, Germany, India, Italy, South Korea, Japan, Mongolia, Pakistan, UK and the USA.

ISO TC 38 SC1 Tests for coloured textiles and colorants. Chair: Sue Bolton, UK (until end 2017), secretariat jointly held by UK and China with UK lead (until 2019) sponsored by SDC:

ISO TC 38 SC2 Cleansing, finishing and water resistance. Chair: Robert Lattie, USA (until end 2017), secretariat jointly held by China and Korea

ISO TC 38 SC 23, Fibres and yarns. Chair: Dr Moon Hwo Seo, South Korea
ISO TC 38 SC24, Conditioning atmospheres and physical tests for

textile fabrics. Chair: Mr Laurent Houillon, France

ISO TC 38 Textiles. Plenary chair: Mr Zhao Qingzhang (until end 2017), chair designate Hasashi Tazawa, Japan. Secretariat jointly held by Japan (until end 2017) and China.

An additional seven working group meetings also took place as planned. A wide variety of new work topics were discussed including proposals to:

- revise ISO 105 C series, colour fastness to washing to replace Sodium Perborate by Sodium Percarbonate temperatures: Xenon arc fading lamp test
- revise ISO 3758 Care labelling code using symbols, primarily to accommodate the new dry cleaning solvents
- consider new work items to characterise the following natural dyes: Indigo, Turmeric and Madder
- consider a revision of ISO 6330 domestic washing and drying procedures

for textile testing to correct update equipment definitions

- consider an alternative rub fastness machine from Japan for ISO 105 X12: colour fastness to rubbing

The largest of the technical meetings was, as always ISO TC 38 SC1, with 52 experts from 10 countries in attendance.

The UK experts present at the meetings were Ian Strudwick (Shirley Technologies Ltd), Karen Skorski (SDC), Tony Sagar (Shirley Technologies), Peter Goodwin (Heals), Jim Regan (Q lab) and Sue Bolton (Bolton Consultancy Ltd) with Brian Woolley representing SDC as secretary to SC 1 meeting.



Diary of SDC events



Diary dates

Events

1 December

CITA, Hong Kong

SDC Hong Kong: AGM, annual seminar and dinner

Contact: calvinlam901@yahoo.com.hk

6 December

Satkar Residency, Thane, India

SDC EC half day seminar: Automise, Optimise or Perish

Contact: sdcsdc.org.in

19 December

National Textile University,

Faisalabad, Pakistan

SDC Pakistan seminar: Textile Colorants

Contact: hmtayyab@hotmail.com

2 January

National Textile University,

Faisalabad, Pakistan

SDC Pakistan seminar: Colour Science

Contact: hmtayyab@hotmail.com

12 January

Bangalore, India

SDC EC half day seminar: Garment

Processing... Green Economics

Contact: sdcsdc.org.in

14 March

Duncan of Jordanstone College of Art and Design

University of Dundee, UK

Scottish heat of the SDC International Design Competition

Contact: angelaa@sdcsdc.org.uk

27 April

Merchant Adventurers' Hall, York, UK

Day of Celebration 2018

Contact: marketing@sdcsdc.org.uk

All dates/details correct at time of going to press.

Day of Celebration 2018

Location: Merchant Adventurers' Hall, York, UK 27th April

Booking is now open for the Day of Celebration 2018. The day includes the AGM, awards ceremony, President's reception and black-tie dinner. Each year we welcome around 200 members from around the world – come and join us!

There is no charge for attending the daytime events, although booking is essential. The cost for attending the drinks reception and dinner is £66.00 (£55.00 plus VAT). Please visit the website for further details and online booking. Please contact: marketing@sdcsdc.org.uk with any queries.



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