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18th INTERNATIONAL TECHNICAL FOOTWEAR CONGRESS

"SOCIAL RESPONSIBILITY: A CHALLENGE FOR THE FOOTWEAR INDUSTRY"

UITIC

13-16 November 2013

GUANGZHOU (CHINA)

& DONGGUAN

会议指南

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INFORMATION ON ORGANIZATION COMMITTEE

(Chinese translation)

国际鞋类技师联合会
The International Union of Shoe Industry Technicians (UITIC)
网址/website：http://www.uitic.org
邮箱/Email：uitic@uitic.org

中国皮革协会

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SUMMARY

PRESIDENTS' WELCOME

Yves MORIN

President of UITIC *(& CEO of CTC)*

Footwear industry has a long history and a bright future. We are developing rapidly and worldwide production has reached 21 billion pairs of shoes in 2012, following the trends of the population growth and the improvement of living standards all over the world.

At the same time footwear industry is facing new challenges such as the costs of labor and materials, prices of finished products that increase continuously and customers who have new expectations. They demand greater transparency and want to know how and where the products were manufactured, which substances were used, what are the working conditions that have been applied.

So it is the right time to ask questions about our social, environmental and economic impacts on the global economy. The theme of this year's 18thUITIC Congress, "**Social Responsibility: a challenge for the footwear industry**", will allow our experts to present tools and innovative solutions to help companies to better understand this matter and act properly. Their high-end technological speeches will demonstrate that Social Responsibility can be a source of opportunity for the footwear industry, in order to improve our process and meet the market expectations. To my knowledge, this is the very first time that such an international event will address Social Responsibility as a global concept, in respect with the ISO 26 000 standard.

This congress is also the right place to think on this important issue for the industry. There are 27 countries members of UITIC association, representing 90% of the world shoe business, so attending to this international event will allow each other to exchange with experts and colleagues coming from both producing and consuming countries. Additionally, China being the host country that year, and being a major player, it is a strong signal that the whole footwear industry will now consider this new way of management.

Attendees will also participate in factory visits to discover their expertise in the manufacturing process, and last but not least, I hope foreigners will take the time to enjoy the Chinese culture and to visit the country with its famous places.

I would like to thank all the teams in the world which have worked on the preparation of this event, with particular congratulations to the management and the staff of CLIA who are welcoming us for our first UITIC congress in Asia.

Su CHAOYING

President of CLIA

The China Leather Industry Association is honored to have had the privilege of organizing the 18th UITIC Congress.

It is most appropriate that it be held in China.

After all China is not only one of the world's leading producer of footwear but also the world's largest consumer of shoes.

We are especially proud to host this event, the first time for China.

One can only be amazed at the seminal changes that have taken place in the global shoe sector is just the last 25 years.

In that time, the sector has witnessed the beginning and the subsequent development of huge shoe producing clusters in emerging economies in Asia including Vietnam, Indonesia, Thailand, and China, of course.

This has altered the footwear landscape in fundamental ways -- moving the center of gravity in shoe production and exports away from developed countries and away from more traditional shoe export centers and planting it firmly in Asia.

Along the way, the new players have seen challenges emerge on costs, labor supply, social responsibility, environment, and other issues – all of which mean the shoe sector today is facing formidable hurdles in the short and medium terms.

The 18th Congress will bring together leading entrepreneurs and experts in the sector from all levels of the shoe industry supply chain and create a unique opportunity to address the challenges that will define our future.

We look forward to an exciting three days and invite your unfettered engagement and participation.

I wish the Congress great success and wish all participants a wonderful stay in Guangzhou.

Liu SUILONG

President of Xinhaopan Group

In this lovely season, we gather together in Guangzhou to hold The 18th International Technical Footwear Congress. Here, I'm on behalf of the exclusive sponsor of the conference- Xinhaopan Group to extend a warm welcome to the guests who come to the conference at home and abroad. In the meantime, I want to express my gratitude to the China Leather Industry Association who actively organized the meeting. It is the first time to celebrate International Technical Footwear Congress in china and it brings a new power to the development of chinese shoes industry.

The International Technical Footwear Congress is the congress that can help to promote Chinese shoes companies to improve the technical level. Participation in and organizing this kind of meeting can help more shoes companies to communicate new technical information with various countries in the world. At the same time, the congress will deepen the friendly cooperative relationship between trade and promotes the industry resource sharing, mutual benefit and win-win.

As a Chinese shoe saler, I have been actively exploring and hoping to seek greater breakthrough to the development of China's footwear industry. In the past twenty years in this field, I have witnessed the development of China's footwear and deeply realize that the technology R & D and innovation is the core of the industry, if we want to make better development in China's footwear industry, we must be in line with international standards, learn the most advanced technical information and enhance technical competitiveness. In today's transformation and upgrading of domestic footwear industry, Xinhaopan Group and I will gather strength to contribute to promote the development of the industry.

Look forward to the future of China's footwear industry, we are confident and Xinhaopan Group will continue to focus on technical innovation, enhance the competitiveness of enterprises. We will try our best to do well and have a good effect to the development of shoes industry in the world!

Finally, I wish the conference a great success!

Waiting for signature

CONGRESS PROGRAM OVERVIEW

Wednesday 13 November			
8:00 AM to 8:00 PM	Registration		
5:00 PM to 6:00 PM			
6:00 PM to 7:00 PM	UITIC General Assembly		
7:00 PM	Welcome cocktail		
Thursday 14 November			
8:00 AM	Start from Shangri-la Hotel		
9:00 AM	Factoty visits : HUAJIAN and BELLE		
4:30 PM	Departure to the Shangri-La Hotel		
6:00 PM	Arrival at the hotel		
7:00 PM	Diner on Pearl River Night Cruise		
Friday 15 November			
8:30 AM	Opening session	Yves MORIN - UITIC President	
		Su CHAOYING - CLIA Chairman	
		Liu FULIN - CLIA Shoe committee	
		China National Light Industry Council	
		Liu SUILONG - Xinhaopan Group President	
9:00 AM	Introductory lectures	Florian BERANEK UNIDO expert	CSR - An essential part of business!Is there still something like “volunteer”?
		Su CHAOYING CLIA - China	The Status of China leather and footwear industries
		Peter MANGIONE Global Footwear Partnership - USA	Global Footwear Supply and Demand
10:20 AM	Coffee break and Poster presentation		
10:40 AM	Session 1 **Product Innovation**	Federico BRUGNOLI CNR - ITIA - Italy	The application of the EPD scheme within the footwear sector: an approach to improve data integration, eco-labelling procedures and design tools
		Antonio Ruiz MARISCAL CIATEC - Mexico	Mean life of footwear. Results and methodology implemented for estimating a fundamental life Cycle Analysis variable
		Maria José FERREIRA CTCP- Portugal	Footwear carbon footprint evaluation and action plan - An integral approach towards sustainability
		Gnanasundaram SARASWATHY CSIR - India	Development of Biodegradable Polyurethane Footwear Soling Materials
		Li SHU University of Science and Technology - China	The Development trend of shoe retail - try shoes online system
12:20 PM	Lunch Buffet		
2:00 PM	Session 2 **Process Innovation**	Sergio DULIO ATOMLab - Italy	Lean, green and clean: a new paradigm in footwear manufacturing
		Tom SCHNEIDER Tan Tec Germany	ISA TAN TEC : A German tannery in Asia
		Monika RICHTER Test and Research Institute Pirmasens Germany	The next generation of virtual shoe design
		Michele CANTELLA ATOM - Italy	Usage of anthropomorphic robots to assist human operators for The automatic pick and place of leather shoe components
		Antonio MIRALLES INESCOP - Spain	Materials and time saving technologies

3:40 PM	Coffee break and Poster presentation		
4:00 PM	Session 3 **Working conditions and Human ressources**	Christophe CUMIN CTC - France	Improvement of training methods for manufacturing operations in Footwear Industry
		Enrique MONTIEL INESCOP - Spain	How to attract skilled young people to footwear industry
		Steve JESSEPH ICG - USA	Improving Profits and Productivity: Lessons from The Apparel sector
		Sri WASKITO Center for Leather, Rubber and Plastics - Indonesia	Training for worker Indonesian Footwear Industry
		John HUBBARD SATRA Technology United Kingdom	Ensuring worker Safety in Footwear Production
5:40 PM	First day closure		
7:30 PM	Official Gala Diner		
Saturday 16 November			
8:00 AM	Opening session	Yves MORIN UITIC President	UITIC general assembly report
8:10 AM	Session 4 **Consumers and Customers**	Gerhard NICKOLAUS PFI - Germany	Sustainability and The Confused Consumer
		Jean-Claude CANNOT CTC - France	The REACH consequences, to be able to get used to moving legislation and standardization
		Qi XIAOXIA SINA - China	The present situation and The trend of China Footwear Standardization
		Shuwen WU Sichuan University China	The Applied Research on User Experience design Concept in Sneakers design
		Petr HLAVACEK Tomas Bata University - Czech Republic	New possibilities to predict The speed of children's feet growing up
9:50 AM	Coffee break and Poster presentation		
10:10 AM	Session 5 **CSR implementation**	Tao ZHANG Anta Sports China	The CSR of Anta
		Sergio DULIO ATOMLab - Italy	Servitization: an innovative model of client - supplier relationship
		Joyce CHAU BSCI - Belgium	Enhancing CSR through Development approach & Partnership
		Andreas TEPEST Deichmann SE Germany	
11:40 AM	Conclusion of the debate	Florian BERANEK UNIDO expert	
11:50 AM		Jean Pierre RENAUDIN CEC President	Introduction of CEC and next CEC Congress
11:50 AM		Representative of IULTCS	Introduction of IULTCS
12:00 PM	Closure Ceremony	Yves MORIN - UITIC President and Su Chaoying CLIA President	
12:10 PM	Lunch Buffet		

The program may be subject to change

DETAILED PROGRAM

Introductory lecture

CSR – An essential part of business! Is there still something like “volunteer”?

Florian BERANEK - UNIDO expert

The Status of China leather and footwear industries

Su CHAOYING - CLIA Chairman

Global Footwear Supply and Demand

Peter MANGIONE - USA

The application of the EPD scheme within the footwear sector: an approach to improve data integration , eco-labelling procedures and design tools

Federico BRUGNOLI

CNR-ITIA National Research Council - Italy

The calculation of the environmental profile of a footwear product involves a number of technical limitations resulting from the limited reliability of the information to be gathered during the inventory phase. Such data are currently collected from a variable and complex supply chains which are distributed at global level. The recent eco-labelling scheme “Environmental Product Declaration” EPD (ISO 14025/TR) proposes a method to overcome such specific limitations in the footwear sector. In fact the use of modular information is introduced to network data from different suppliers and studies.

In the present work main methodological changes due to the Footwear EPD scheme introduction are described. Data integration rules to link leather studies and footwear product certification will be specified. Then an eco-efficiency assessment, compliant with the footwear EPD, will be discussed with reference to the design of a classic footwear model. Particularly the variance in environmental impact deriving from different approaches at bill-of-material level will be discussed.

The results seem to indicate that a rapid reuse of single “phase-to-phase” investigations within different assessments can be enabled by the proper data modularization. Particularly the component industry can be strategically involved in the footwear certification procedure by the introduction of cross-sectoral audit schemes. As a consequence of such rapid information reuse design processes and product certification procedures can be concurrently aligned.

CV

Graduated in science and technology for the environment at the University of Milan, Federico BRUGNOLI has a long expertise in working with manufacturing companies, industrial associations at both Italian and European level in various economic sectors : leather tanning, shoe manufacturing, fashion, wood and furniture, trade and waste management. He has coordinated several European projects and is currently the technical coordinator of the European Sectoral Skills Councils for the textile, clothing, leather and economic sectors. He is the founder of SPIN 360, a consulting firm partner of Synesis, a R&D consortium involved in several footwear related projects. Federico BRUGNOLI recently collaborated with UNIDO.

Mean life of footwear. Results and methodology implemented for estimating a fundamental Life Cycle Analysis variable

Antonio Ruiz MARISCAL

CIATEC - Mexico

Mean life of footwear is a measure of the average life expectancy of this product. How many months or years a pair of footwear lasts?

From cradle to grave, how much time passes from creation to final disposal, recycling or disintegration of a pair of shoes? Answering these questions, four assessing ways have been integrated in a comprehensive methodology: standard usage determination by way of surveys; laboratory testing of durability by way of accredited tests, landfill analysis by way of sampling recovering and proper deterioration analysis and finally recycling data by way of surveys and studies of reprocessing footwear units worldwide. Special note has been taken of footwear that once discarded in an industrialized country is reused in another developing country.

From this ongoing technological development project, there are results reported here that have taken into consideration different consumer usage patterns as well as most of the footwear types related to specific activities: ceremonial, casual, athletic, scholar, industrial-safety, relaxing and orthopedic. Basic styles like boots and sandals are properly considered.

Finally an example is given on the integration of the mean-life footwear results into the broader life cycle analysis and the corresponding conclusions that can be derived for the sustainable development of an industry facing global changes.

CV

Graduated in chemical engineering at the National University of Mexico and specialized on the designing and exploitation of scientific and technical online database, Antonio RUIZ MARISCAL held positions in the Mexican Government and in Mexican agencies (CIATEC) and worked as consultant in his field for international and intergovernmental organizations (UNIDO, OEA) and for the private sector in Mexico. He has been involved in diverse national and international research projects related to leather and footwear and is the author of three books and a dozen papers. His current research is concerned with the foundations of Information Science and the Mean Life of Footwear study being submitted to UITIC.

Footwear carbon footprint evaluation and action plan

An integral approach towards sustainability

Maria José FERREIRA

CTCP - Portugal

Footwear companies are faced with the challenge of reducing their carbon footprint for the advantage of their business and the environment. In this regard CTCP focused on the development of an online tool that enables companies to recognise and improve their energy consumption and associated carbon footprint/CO2 emissions. The tool is designed to be easily and rapidly answered by the enterprises throughout a questionnaire that gathers together the more relevant requirements that are applied to them. The outcome gives (1) the energy consumption per product type, production process, among others; (2) the kg CO2 equivalent emitted; as well as (3) recommendations to improve energy efficiency based in organizational measures and low cost investments. Furthermore, in the frame the European project IEE/11/949/SI2.615946 - IND-ECO (Industry alliance for reducing energy consumption and CO2 Emission) partners from 6 European countries are identifying efficient technical solutions and financial support actions with the objective of reducing CO2 emissions in the footwear and leather sectors. The project seeks increasing awareness, knowledge and organisational skills of companies on energy efficiency to allow them to seize opportunities, to adopt tools, technologies and financial facilities to access capitals. A total energy saving over 15 million primary kWh is foreseen by the end of the project.
In this work, an updated vision of actions being conducted regarding footwear carbon footprint by major players is presented, followed by a synthetic overview of the diagnosis tool and detailed presentation o sustainable recommendations to improve energy efficiency in the footwear industry.

CV

After earning her PhD in environmental engineering from the University of Porto, Maria José FERREIRA joined the CTCP lab in 1990 as researcher. She is since 1994 Director of CTCP Research and Quality Department and is in charge of quality control, safety at work, environment and research labs, technical support and consultancy regarding materials, products, work conditions and environment, training and research activities of CTCP. She coordinated more than 50 national and EU projects for CTCP, mainly in the fields of new materials, products and environment. She has been involved as author or co-author in more than 70 publications or oral presentations in the last 13 years.

Development of Biodegradable Polyurethane Footwear Soling Materials

Gnanasundaram SARASWATHY

CSIR - India

Currently, 17 billion pairs of shoes are produced worldwide every year. Apart from leather (8%), PVC (20%), Rubber (40%), TPR (14%), EVA (9%), and PU (8%) are being used as soling materials. The polymeric shoe soles create an enormous amount of waste that is currently being disposed as landfill. Though polyurethane is used only 8% of the global production of shoes and this figure continuous to rise for its unique mechanical properties. Therefore it is important to develop biodegradable PU soling materials and adopt eco-friendly practices. Rigid biodegradable polyester based polyurethanes (PU) were synthesized by reacting aliphatic or aromatic diisocyanate (NCO) with poly (ε-caprolactone) (PCL) to obtain prepolymer which were then reacted with chain extenders (CE) (Diol or Diamine) in stoichiometric ratio of 2:1:1. In order to reduce the cost of the materials nanoparticles were added as fillers. The biodegradability of prepared PU was studied by soil burial method and the suitability for application as footwear soling material was confirmed by characterization of materials for the physico-mechanical properties such as hardness, density, tensile and tear strength, elongation, resistance to abrasion. The physico-mechanical properties of PU composites were found to meet the standard specifications for soling materials. The PU composites developed with 2% of nanoclay and titanium dioxide nanoparticles had shown better properties than the other PU sheets. PU had shown maximum of 7.9 % weight loss after 60 days of burial in normal garden soil. This study is being continued to develop soles using biodegradable PU composite by injection moulding.

CV

Researcher in the Shoe Design and Development Centre of the Central Leather Research Institute of Chennai (India), Dr Gnanasundaram SARASWATHY has an extensive research track-record in the field of polyurethanes. She presented scientific papers in over 20 conferences and congresses worldwide and received many presentation awards. She filled-in several patent applications related to novel viscoelastic polyurethanes and insole sheets.

The development trend of shoe retail - try shoes online system

Li SHU

University of Science and Technology - China

For traditional footwear retail enterprise, e-commerce to expand a new sales channel for them. Network has the property of no time, no regional restriction, which makes more and more women buy shoes online. Women can be found from the Internet all kinds of different styles of shoes. But the shoe which looks good, wearing up is fit or not is another problem. It also makes a lot of people want to buy shoes online for this. As the saying goes: clothe is not small inches, shoe is not small points. It serves to show the importance of shoes fit for us. With the continuous development of software, the virtual fitting system has began to grow, and it serves to show the virtual test shoes system also will become the development trend. Virtual test shoes by stereo vision principle or according to customer foot type 3D information, which using computer graphics to construct three-dimensional model of customer's foot. Customers can choose their favorite style by browsing through the computer image processing, in which stores a lot of shoes picture. The customers choose our shoes "wear" to the customer's 3D foot model. The purpose of this paper is to combine online shoe needs of consumers and their experience, which reference virtual fitting system design and analysis software system. Virtual test shoes system is proposed and basic module and preliminary solutions.

CV

Currently preparing a Master's Degree at the Shaanxi University of Science and Technology, Li SHU completed several training periods in different footwear companies where she mainly studied the footwear batch production, the fine shoe production and the method to determine the related mechanical properties of shoes on physics.

Lean, green and clean: a new paradigm in footwear manufacturing

Sergio DULIO

ATOMLab - Italy

Sustainability is becoming a growing concern for producers but also a purchasing argument for consumers; a clear understanding of its meaning and of its impact on all shoe making processes is vital for shoe companies all over the world with the aim of transforming what used to be perceived as a cost burden into a market opportunity. The paper and the presentation will highlight the connections between lean manufacturing, a sustainable use of resources at all levels and a true environmental consciousness in terms of a proposed strategy for the implementation of this novel, synergetic process paradigm. The main aspects of the lean philosophy will be presented in relation to their implications on manufacturing; energy consumption issues will be discussed in relation to the new generation of resource conscious machines and processes and , finally, related to the main aspects of “green production”. A roadmap for implementation will also be briefly proposed

CV

Graduated in aerospace engineering at the Polytechnic of Milan, Sergio DULIO first worked in the aerospace and ICT industry before joigning the footwear industry in the late 1980s. He held several positions in the public sector as Director of research consortia and Coordinator of national and European collaborative projects related to innovative leather cutting systems and shoe machinery. From the mid-2000s until his current position as Head of ATOMLab, he worked as technical consultant and project coordinator in the private sector, mainly for associations of shoe producers and manufacturers. Sergio DULIO is active in disseminating information through his participation in conferences and congresses, his articles in specialized press and his lectures on footwear technologies.

Isa Tan Tec : A german Tannery in Asia

Thomas SCHNEIDER

Tan Tec - Germany

Isa Tan Tec, leather manufacturer since 1995, owns several production sites in China and Vietnam. We make leather for the automobile and shoes industries.

Isa Tan Tec is engaged in a sustainable development approach with important aims as energy and water savings, chemicals consumption and waste production reduction and traceability.

Those projects allowed us to reach several significant results especially the client leadtime reduction.

Technologies or organizations implemented in Saigon site to conduct those projects will be presented during this conference.

Particularly:

- Manufacturing process
- Water treatment
- Natural resources utilization
- Waste management
- Advance manufacturing by providing system supply

The Isa Tan Tec process was recognized by German Energy Agency and LWG.

CV

After studying biology and chemistry at the university of Konstanz (Germany), Thomas SCHNEIDER trained as tanner at the renowned professional Tanning school in Reutlingen. He worked for a long time for tanneries in Australia and Asia and now lives in China since 1988 where he founded ISA Tan Tec in 1995.

The next generation of virtual shoe design

Monika RICHTER

Test and Research Institute Pirmasens - Germany

Test and Research Institute Pirmasens and Technical University of Chemnitz developed a new virtual method to design all types of boots. Bases are 3D foot and leg dimensions and shapes resulting from German measurements.

CV

Manager of the Shoe Technical Research and Development at Pirmasens, Dr Monika RICHTER has a comprehensive knowledge in the whole production process of shoes (from the biodynamic of the foot to pattern engineering using CAD systems). Taking part in different national and international research projects as project leader, Monika RICHTER is also involved in different German shoe-related working groups : she is for instance Chairman of the German standardization working group ‘Shoes’.

Usage of anthropomorphic robots to assist human operators for the automatic pick and place of leather shoe components

Michele CANTELLA

ATOM - Italy

Today the automatic cutting of shoe components by means of special high speed CAD/CAM systems is surely acquired and consolidated by the footwear factories.

But at the end of this fundamental phase there isn't still any automatic process in order to allow a fast picking and subsequent sorting of the shoe components just cut by the plotters. Actually the same components are routed by human workers to the next working departments for skiving and assembling.

Behind this project there is the idea of using special anthropomorphic robots (with six interpolated axes), today already used for manipulation of goods in warehouses, connected at the end of the cutting plotter. On the wrist of this robot is assembled a special head made of a matrix of suckers.

Depending on the geometry of the leather components to pick, the relative suckers will be switched on and, by means of a special vacuum pump, all the pieces just cut by the plotter will be handled by the anthropomorphic robot arm which is also in charge to locate the same components in the relative boxes divided by shoe article and proper size.

The focus of this project is to reduce the total time for picking and to alleviate workers from a repetitive and alienate job.

CV

Graduated in Computer Science at University of Milan in 1989, Michele CANTELLA started his working activity in the field of industrial automation. He moved to ATOM Group in 1991, became its R&D Director of ATOM in 1997 and has been a protagonist of the technological evolution of ATOM products in electronics and software field. He is since 2011 in charge of the software R&D team of Main Group, a company specialized in machineries for injection moulds. He participated to several collaborative research projects (eg:"Euroshoe") where he had the chance to collaborate with many different industrial enterprises, footwear schools, Inescop and famous Universities. He represents since 2005 Assomac (Italian shoe machinery association) in UITIC Executive Committee.

Materials and time saving technologies

Antonio MIRALLES

INESCOP - Spain

In previous UITIC Congresses some papers already addressed the technical support that computers can provide to footwear manufacturing operations, from the design stage to the cutting process.

Computer technology has spread to currently become a complete tool to support the whole value chain, from the creation of the model to sales.

The preparation of the main constituent components (lasts, heels, insoles, soles) the partial outsourcing of specific operations, the distributed production in different geographic areas, the customisation of products for certain users, etc. mainly rely on specific software solutions for the footwear industry, which are closely related to each other.

The tools that initially aided the pattern-making, grading and cutting operations, have been developed to provide hyper-realistic, three-dimensional models that significantly reduce and simplify the prototyping process, the selection of models and the placing of finished shoes on the market.

The paper will present practical examples of companies that have cut the number of samples per season by two thirds, thanks to the use of realistic models. These tools help to reduce lead times in spite of the fact that companies design their models in Europe and produce them in Asia, work online with their suppliers, who interweave their uppers while they produce the range of lasts, operate with three countries at the same time, or give their clients the opportunity to modify textures and colours via an i-Pad and see the virtual models on their feet through the use of Augmented Reality.

CV

Graduated in computer engineering, Antonio MIRALLES is specialized in the installation and management of specific footwear software developed by INESCOP and provides customised training courses for SMEs. He is also expert in the configuration and installation of NC machines and cutting plotters, development of web sites with PHP and ASP and programming of customised computing solutions.

He participated in several European R&D projects with regard to the installation, configuration and training of CAD/CAM systems.

Improvement of training methods for manufacturing operations in footwear Industry

Christophe CUMIN

CTC - France

There are many ways to train workers for a new operation in a footwear factory.

We can train the worker for only one operation, or we can train him to be able to do several operations.

We can do this training during the production, or we can organize specific training units.

We can use training schools, independent trainers, or the factory can get his own trainers.

After several years of improvement CTC develop his method to do an efficient training, based on a reasonable time period, to obtain at the end, a good worker, versatile and motivated by his work.

CTC experience can be detailed to show the methods used, the pedagogical approach, the tools implemented, times used, and the results observed.

CV

From 1985 to 2002, Christophe CUMIN worked for different footwear companies where he development an extensive knowledge in the various stages of shoe conception and production management. He is since 2002 Head of the Shoe Department at CTC, a position encompassing a wide variety of activities among which designing and coordinating professional shoe-related training programmes and providing advice to the actors of the footwear sectors in the fields of quality process, setting-up production units, companies reorganization, design and product development, industrialization of products industrialization and production operators training.

How to attract skilled young people to footwear industry

Enrique MONTIEL

INESCOP - Spain

Whatever the country, the footwear industry often meet difficulties to attract young graduates.

However, companies need more and more high skills to be competitive. They have to be efficient in any areas, as the supply chain management, the purchases, the logistic, the sustainable development, the product design, the materials management or the quality.

Inescop led many projects on 2 main themes :

How advanced technologies help attract young people to the sector to renew skills

How to convert traditional skills into future

Stakes, results and issues will be presented in this conference

CV

Holding a PhD degree from the Miguel Hernandez University, Enrique MONTIEL joined INESCOP in 1992 where he is currently in charge of its Research Results Transfer Office. He accumulated a wealth of hands-on experience in the field of international projects and cooperation activities related to the footwear and leather industry). Co-author of three patents and author of many national and international papers and presentations with regard to footwear and its raw materials, Enrique MONTIEL is highly involved at European level, both as member of the High Level Group of the European Footwear Technology Platform and as expert evaluator of European projects proposals. He is the Treasurer of UITIC since 2008.

Improving Profits and Productivity: Lessons from the Apparel Sector

Steve JESSEPH

ICG - USA

Over the past 20 years, the apparel and textile sector has been accused of a poor record of treatment of workers and environmental contamination in over 40 countries around the world including dumping of harmful chemicals in the environment, injuries to employees using chemicals, improper payment of wages and benefits, unsafe working conditions and more. Unfortunately, many of these accusations are true. However, the industry has made significant progress in correcting these abuses while at the same time improving productivity and profits at the same time. This session will explore those lessons learned and the good manufacturing processes which have been adopted, and examine how these practices can benefit the leather and footwear sectors.

CV

Recognized expert in the Corporate Social Responsibility, Compliance and Ethics fields, Steve JESSEPH is Chief Operating Officer at ICG and chairs the Global Responsibility Committee for the International Apparel Federation. He was previously President and CEO of Worldwide Responsible Accredited Production, an independent, non-profit organization dedicated to the certification of lawful, humane and ethical manufacturing throughout the world. Due to the positions he held in the Sara Lee Corporation, he gained an in-depth knowledge of the apparel sector. Steve JESSEPH is a regular speaker at conferences and technical events.

Training for worker Indonesian footwear industry

Sri WASKITO

Center for Leather, Rubber and Plastics - Indonesia

Footwear Industry in Indonesia plays significant roles in the development of National Economy. There are three importants roles played by the footwear industry, those are : first is to produce footwears to meet domestic industry demands; second is to provide job opportunities for Indonesian people; and third is to generate foreign exchanges from exports. Currently, there are approximately 388 footwear manufacturers in Indonesia located in eight provinces, with labor on medium and large Footwear industry reached 548.335 people in 2012. one of the problems encountered in the Footwear Industry is the limited human resource capacity and availability of product design and production technology particularly sewing. Center for Leather ,Rubber and Plastics (CLRP) is a tehcnical implementation unit under the Industrial Climate and Quality Research Agency at Ministry of Industry. The main task of CLRP is to carry out activities on research,standardization, testing, certification ,calibration and development of competences in the fields of leather, rubber and plastic industries. CLRP has a shoe laboratory really supporting training on footwear Manufacturing and professional instructors (Footwear experts), Competency-Based test Center of Footwear (TUK AK- CLRP). CLRP has conducted many training programs including workforce training footwear industry. Training for worker footwear industry has been implemented in 2008 to 2013 for 289 people, the total cost of training is Rp. 623 Million , including Training for sewing of upper shoes, Training on Footwear manufacture Technology and training on Footwear Design and patteren grading, training for casual shoes Manufacturing , Training for Mocasin shoes Manufacturing, Training for sandal from leather Manufacturing. The purpose of training is to improve knowledge and skill of worker on footwear manufacturing technology, improve the labour productivity and quality of product, reduce the level of unemployment and create new entrepreneurs. Training activities cover theory, practice and industrial visit. To Increase the effectiveness and the efficiency of business supported by quality professional workers, CLRP has supported labor competency certification program. Competency-Based test Center of Footwear (TUK AK- CLRP) CLRP has facilitated the implementation of personnel competency test in 2012 to 2013 for 126 people consisting of 65 people for operator of Flatbed sewing machine competence, 28 people for shoes pattern manual systems competence and 37 people for assemble and sew upper shoes competence.

CV

After studying leather technology and economics of management, Sri WASKITO joined the Tannery Development Laboratory of the Center for Leather, Rubber and Plastics. Head of the Waste Water Treatment Laboratory (from 2000 to 2007) and then of the Technology Transfer and Incubation Section (from 2007 to 2011), he is since 2011 Deputy Director of the Training, Transfer of Technology and Incubation Department.

Ensuring Worker Safety In Footwear Production

John Hubbard

SATRA Technology - United Kingdom

There are a number of operations in footwear manufacturing processes that use chemicals that may lead to long term harm to the operatives who are exposed to them. Therefore it is important from a corporate social responsibility perspective to ensure the safety of operatives by protecting them from these agents.

The extent of exposure will depend on a number of factors but the concentration of airborne contaminants can often be controlled by the simple use of extraction, ventilation and closed systems.

However where exposure is likely to occur it is important not only to identify which operatives are at risk, by making measurements on the potential exposure levels, but also verify that any work to improve safety has had meaningful impact.

The key parameters and risks that exist in a footwear factory include chemical risks such as dusts produced during scouring, roughing and cutting operations, solvents used in adhesives, primers and cleaners and isocyanates which are used in the two part polyurethanes systems. In addition to exposure to chemicals there are a number of physical hazards to which workers may be exposed, these include; noise, slips, trips and falls, cutting equipment, electrical machinery and the risk of fire.

Managing these issues can be achieved through a combination of risk assessment, measurement, observation, employee engagement and awareness.

CV

John HUBBARD is a chemist who co-ordinates SATRA's response to the developing worldwide chemical legislation including REACH and CPSI (SATRA is a leading authority on international legislation and testing, and on the technical aspects of a wide range of products including footwear, leather). John HUBBARD also helps SATRA's member companies keep their restricted substances lists up to date with all the latest requirements and test methods and provides advice on environmental and sustainability issues. He is the UK representative to the ISO and CEN footwear standardisation committees and provides technical training on a wide range of topics to our worldwide customer base.

Sustainability and the Confused Consumer

Gerhard NICKOLAUS

PFI - Germany

A big German Newspaper (FAZ) made in 2012 an interview with thousands of consumers and asked them “What is Sustainability and a sustainable product and would you pay more if a consumer articles (textiles, shoes, toys, electronics, etc.) are sustainable”. Nearly none of the consumers had a clear idea about the meaning of sustainability. Some never heard about it, some had absolutely wrong interpretation but most of the interviewed consumers where the opinion that sustainability has something to do with “environmental stuff and forests” but without being able to describe this assumed connection between environment and sustainability more detailed. And 90% of the consumers expressed their willingness to pay more for “sustainable articles”. In general this public opinion poll showed that the consumer is not informed about sustainability. Own experience showed that on the other side also manufacturers, traders and retailers are also not well informed about the meaning of it. This presentation gives an idea about what sustainability means for shoes, whether high fashion shoes can ever be sustainable and the presentation proposes criteria and marking which may be suitable for a promotionally effective marking of the sustainable shoes.

CV

Graduated in chemistry in 1976, Dr Gerhard NICKOLAUS started his career as Head of analytical testing laboratories. Public expert for leather, chemicals and other materials since 1986, he evaluated many research project applications for the German Ministry of Commerce. He has been for several years Chairman of German, European and International standardization commissions and adjunct professor at the Technical University Kaiserslautern for analytical testing of consumer articles. He is currently Head of the International Shoe Competence Center in Pirmasens in Germany and is Chief Executive Officer of Pirmasens subsidiaries in Asia (Hong Kong, PFI China, PFI Fareast).

The REACh consequences, to be able to get used to moving legislation and standardization

Jean-Claude CANNOT

CTC - France

There is a real evolution in the consumer's behavior since 30 years. The times where durability, hard-wearing quality or product performances were priorities, are gone. Now, innocuousness is one of the first priorities for the consumer. Major changes have occurred. Especially the Legislation has changed in Europe. Since 2007, REACH (Registration, Evaluation, Authorization and Restriction of Chemicals), Regulation N° 1907/2006, was created to protect the environment and people from critical substances. This regulation requires the control of a large number of organic/inorganic chemicals. 2 annexes are very important for footwear, Annex 14 defines the candidate list for the substances of very high concern "SVHC" and Annex 17 gives the list of forbidden substances. One of the major consequences of REACh is the setup of a regular evolution of the lists of critical substances to control. Each industry has to study, several times in a year, the new substances, to check whether they are used in their articles. If yes, new analysis will be necessary and new tests methods shall be created. For footwear, CEN TC309 and ISO TC 216 have taken this surveillance work. CEN ISO TR 16178 and CEN TR 16417 are dedicated to the presence of chemicals in footwear or footwear components. But it means also that the footwear manufacturer shall regularly get used to moving legislation and standardization. This difficult situation will be studied.

CV

Hodling a PhD in physical chemistry from the University of Bourgogne, Jean-Claude CANNOT first worked as manager in a chemical surface treatment SME before joining CTC in 1995. He his currently CTC Technical Director, CTC standardization Director and Quality Director of CTC group (France, Vietnam, China, India).

Jean-Claude CANNOT is a member of AFAQ and COFRAC (French accreditation and quality certification boards) and is also involved in several workgroups of the European Committee for Standardization.

The present situation and the trend of china footwear standardization

QI XIAOXIA

SINA - China

The past 30 years has witnessed an explosive growth of China footwear standardization, increasing in quantity quickly and improving in quality steadily. The standardization has propelled the footwear industry forward in a normative model and improved the footwear quality evidently. The author has been working in the footwear inspection and standardization for the over 20 years and has breadth of experience in this field. In this article, she summarizes, analyses and studied the present situation of footwear industry, consumer market, the system and the existing problems of China footwear standardization, and the international footwear standardization status base on the routine footwear inspection and the investigation of footwear standardization. The author also predicts the future trend of China footwear standardization in view of above analysis.

CV

Qi XiaoXia has been working on footwear standardisation for over 20 years. She participated in establishing more than 40 domestic standards, all applied in the footwear. She was appointed Secretary General of the National Technical Committee 305 on Footwear of the Standardization Administration of China in 2008. Qi XiaoXia has actively pushed on participating in international standardization and up to now three working items have been proposed.

The Applied Research on User Experience Design Concept in Sneakers design

Wu SHUWEN

Sichuan University - China

User Experience Design (UED) has already been used in many aspects including IT industry, costume design and so on. Unfortunately, this concept was only brought to the shoe design field in recent years and only a few researchers studied it. The purpose of this paper focus on the concept of UED which was applied in sneakers design.

In this paper, “User Experience Design (UED) Concept” was introduced. The developing history, current situation of UED and the successful examples were also analyzed in this research. The applied methods and specific procedures were summarized through this process to seeking the differences and individuality in the developing process of sneakers design as well as broaden the thoughts of design. Besides, design sketches and concrete sports shoes were designed and manufactured by using UED concept to test the research results. As a result, the probability of combining sneakers design and UED concept was studied in this research and the contents of sneakers design were also enriched through this research, which aimed at bringing new experience to consumers so that better connections would be built between consumers and designers through UED sneakers.

CV

Preparing a M.E at Sichuan University with a major in leather chemistry and engineering, Shuwen WU received several fellowships and awards, worked as volunteer for the tenth Western China International Fair, studied the biomechanics of shoes for women, followed an internship in Scheme brand of Chengdu and participated to the ‘Innovate design and production of leather products’ innovation project of the Sichuan University.

New possibilities to predict the speed of children’s feet growing up

Petr HLAVACEK

Tomas Bata University - The Czech Republic

Faculty of Technology in Zlin developed software for the prediction of how fast are children's feet growing up. This software is based on so called anthropological “Carlberg model” and measurement of 2000 children and their genetic parents. In other words, when a customer comes to a shoe shop to buy a new pair of shoes for his/her child, we are able to estimate the day on which the length of the child’s feet will be longer than the length of the shoes to be bought, or the day on which the shoes may become dangerous to health. We assume that this type of software will significantly help to reduce the rate of paediatric foot deformities.

CV

Holder of a PhD from the Faculty of Technology Zlin, Petr HLAVACEK held numerous positions at the Tomas Bata University Zlin where he is Associated professor since 1997. He is currently Vicedean of the Faculty of Technology, Vicepresident of COKA (Czech Footwear and Leather Association) and Expert for Leather and footwear Panel Meetings for UNIDO. Very active in national and European footwear-related projects and on the academic scene (with over 70 presentations on International congresses and conferences, 90 articles in vocational periodic and lectures all around the world), he received several international awards, among which the 2005 UITIC Scientific Award in recognition of services to the footwear Industry.

The CSR of Anta

Zhang TAO

Anta Sports - China

Anta has been committed to being a outstanding company and produces the best products. At the same time, Anta offers more benefits for its employees and creates the most value for the society.

“ Keep Moving”-- the slogan of Anta has public-good. As Shizhong Ding who is the chairman and CEO of Anta said: Our belief is constantly strive for excellence. The core value of Anta is "Brand, innovation, focus and integrity". Anta will be a brand cross the century, therefore, Our responsibility and concept are honesty, integrity, appreciation and undertake social responsibility.

In order to return to the society, Anta provided support for basketball, table tennis and volleyball sports events and established more than one hundred “Anta Hope sports room” and “Anta Hope library” in China in the past ten years. At the same time, Anta funded hundreds of poor university students, and provided more than 80,000 jobs for the community

CV

Holding a PhD in communication studies from the People's University of China School of Journalism, Tao ZHANG held several managing positions in Chinese Groups (CCTV, Lenovo Group, Wanda Group) before joining Anta group as Group Vice President and General Manager of Beijing Branch in 2008. He has accumulated a wealth of hands-on experience in the field of brand management, public relations, corporate strategy, project management, marketing, research and management consulting. Mr. Zhang also published dozens of Management columns in various journals and newspapers (Finance, Chinese entrepreneurs, 21st Century Business Herald, Economic Observer, etc.)

Servitization: an innovative model of client - supplier relationship

Sergio DULIO

ATOMLab - Italy

The relationship between technology providers and the users of such technologies has been known and considered so far as a very traditional client – supplier contractual partnership; little or no evolutions have been introduced on this matter in the past years. A new relationship model is nevertheless emerging: servitization. In this new kind of business model traditional system or machine suppliers develop a brand new role: form sellers of machines they transform into performance providers, being measured and remunerated on a totally different basis: not anymore on the price of the items sold but on the production they will perform, on the savings they bring along and on the fulfilment of a set of KPI (Key Performance Indicators). The main elements of this new service paradigm will be presented, showing how they may completely change role and relationships in the whole technology pipeline. As an example, the conceptual work and the on-going projects in the newly established Research and Innovation Unit of the Atom Group (Italy), named ATOMLab, will be presented and commented.

CV

Graduated in aerospace engineering at the Polytechnic of Milan, Sergio DULIO first worked in the aerospace and ICT industry before joigning the footwear industry in the late 1980s. He held several positions in the public sector as Director of research consortia and Coordinator of national and European collaborative projects related to innovative leather cutting systems and shoe machinery. From the mid-2000s until his current position as Head of ATOMLab, he worked as technical consultant and project coordinator in the private sector, mainly for associations of shoe producers and manufacturers. Sergio DULIO is active in disseminating information through his participation in conferences and congresses, his articles in specialized press and his lectures on footwear technologies.

Enhancing CSR through Development Approach & Partnership

Joyce CHAU

BSCI - Belgium

The globalized economy has not only brought benefits to improve the living quality of all walks of lives but at the same time generate increasing demand for enterprises to contribute to sustainable development through socially responsible business practices. To this end, global supply chain partners have been committed to work together to enhance the work environment via various forms of collaborations. The development approach and buyer-supplier partnership model promulgated by BSCI Participating companies and their suppliers in key sourcing countries are one of those valuable practices can bring fruitful results. This presentation will elaborate how the approach has been undertaken with some examples of cases.

CV

Graduated in communication and in translation, Joyce CHAU has been working in the past 20 years as a corporate communications practitioner for various organizations (HSBC, Dell China, HKSAR Government, Hong Kong Airport Authority, etc.) with focus on sustainability, CSR, and supply chain management. She acquired a great deal of expertise especially in public affairs, stakeholder and media relations crisis and issues management. She joined Business Social Compliance Initiative, an initiative of Foreign Trade Association, as the Country Representative of the organization in China in 2011. She serves as an intermediary between the BSCI Secretariat, members, suppliers and local organizations in China.

Andreas TEPEST

DEICHMANN SE - Germany

The globalized economy has not only brought benefits to improve the living quality of all walks of lives but at the same time generate increasing demand for enterprises to contribute to sustainable development through socially responsible business practices. To this end, global supply chain partners have been committed to work together to enhance the work environment via various forms of collaborations. The development approach and buyer-supplier partnership model promulgated by BSCI Participating companies and their suppliers in key sourcing countries are one of those valuable practices can bring fruitful results. This presentation will elaborate how the approach has been undertaken with some examples of cases.

CV

Andreas Tepest, born 1966 in Germany, is the “Head of Global Quality Management” of the DEICHMANN SE, Europeans leading retailer for shoes. He is responsible for the global shoe production and product quality and also coordinates all social compliance and sustainable activities, including the global BSCI audit program. Before he started his carrier at DEICHMANN in 1996, Andreas Tepest worked as Production Manager at a leading shoe producer in Germany. He is active in a number of national and international organizations, networks and projects e.g. as Deputy Chairman of the CADS-Cooperation at DSI, Member of the LWG-Leather Working Group, Member of national and international committees of DIN and ISO and also Member of the WMS working group - the leading shoe size system for children shoes in Europe. After graduating from Germans Shoe Technician School in Pirmasens, he studied Technical Business Administration at the European Academy in Cologne. He is also a holder of the certificate as a REFA-Technician. REFA is the leading German association of organization in work design, industrial organization and company development.

INFORMATION ON FACTORIES

Huajian 华坚集团
www.huajian.com

华坚集团成立于1996年，集团总部位于广东省东莞市。以专业生产密鞋、凉鞋、皮鞋、马靴等女鞋为主，是全球最大的中高档女鞋专业制造商之一。旗下拥有东莞华宝鞋业有限公司、东莞华宝鞋业有限公司大龙分部、江西赣州华坚国际鞋城和华坚国际鞋城（埃塞俄比亚）有限公司四大生产基地，以及十多家分子公司，形成了集研发、贸易、成品加工、皮革制造、鞋材制造、鞋机配套、物流配送于一体的完整产业链。现拥有50条现代化制鞋生产线，年产超过2，000万双，员工22，000余人。

强大的开发与生产能力、先进的工艺技术、优良的产品品质与服务，为华坚赢得了众多客户的青睐，全球排名前50位的中高档女鞋品牌中有30家是华坚忠实的客户并形成长期的战略合作。其中包括BCBG GIRLS、COACH、EASY SPIRIT、ENZO、GUESS、JAMBU、NINA、NINE WEST、NAYA、UGG、UNISA等众多国际知名品牌。

公司以“建文明小社会，创高效大集团”为企业目标，秉承“以人为本，服务人类”的经营理念和“为社会而生存，为行业而努力”的企业使命，经过16年的发展，现已成为业界最具活力的现代化企业之一。

HuJian Group founded in 1996, the headquarter locates in Dongguan City, Guangdong Province. The group specialized inladies' shoes like closed shoes, sandal and riding boots etc, It is one of the largest ladies'shoes manufacturers of medium and high grade in the world.There are four production bases: HuaBao shoes in Dongguan, DaLong shoes Dongguan, Huajian international footwear capital Jiangxi and Huajian international footwear capital Ethiopia, and ten subsidiaries and more. It formed a whole industry chain that integrates with R&D, trading, finished shoes processing, leather manufacturing, shoe material manufacturing, footwear machine supporting and logistics distribution. There are 50 modern production line of footwear manufacturing with an annual output of more than 20million pairs and more than 22,000 employees.

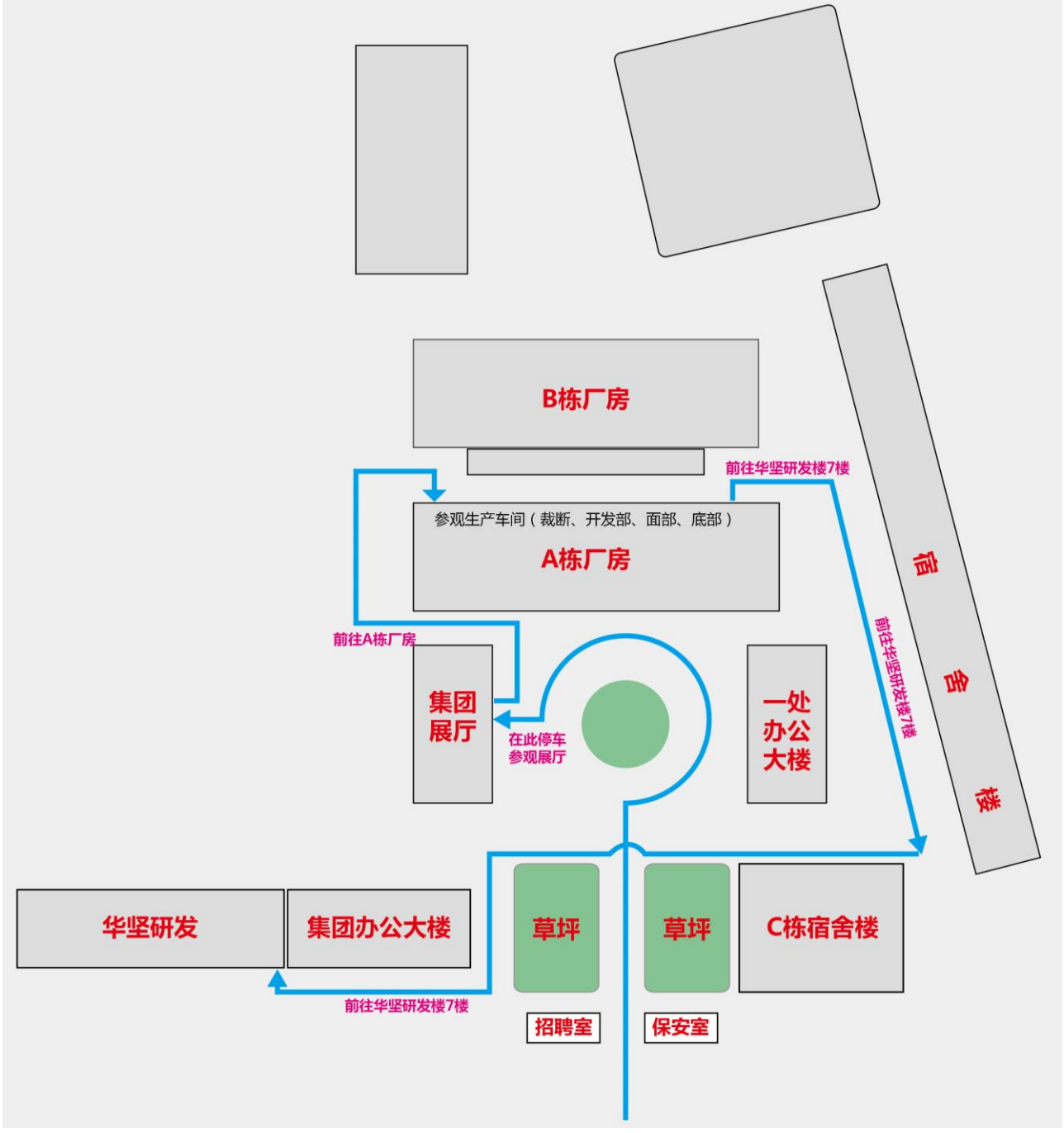
The strong ability of R&D and production, advanced workmanship and technology and superior quality and service were evaluated highly by many clients, 30 of the first 50 brands of high and medium grade ladies'shoes are customers of HuaJian group and established long term strategy cooperation . Including international brands such as: BCBG GIRLS、CLARKS、COACH、CALVIN KLEIN、EASY SPIRIT、ENZO、FRANCO SARTO、GUESS、JAMBU、JOAN & DAVID、MARC FISHER、MARC O'POLO、NINA、NINE WEST、NAYA、NATURALIZER、PIKOLINOS、SAM EDELMAN、UGG、UNISA、VINCE CAMUTO. etc.

Hua Jian Group takes 'building a civilized small community and creating efficient large groups' as its target, 'people-oriented and serving for human being' as management concept and 'surviving for society and making efforts for industry' as the mission. It becomes one of the most dynamic and modern enterprises in the industry after 16 years development .



Huajian
华坚集团

参 观 路 线 图



新百丽

新百丽鞋业（**深圳**）**有限公司是香港上市公司——**

百丽国际控股有限公司在大陆投资兴建的香港独资企业，**是以真皮女鞋**BELLE（**百**丽）**品牌**为龙头，**集**Teenmix（**天美意**）、STAC CATO（**思加**图）、TATA（**他她**）、Jipijapa、Joy & Peace（**真美**诗）、FATO（**伐拓**）**等系列**优势品牌的研发、生产、批发、零售、服务为一体的中国鞋业龙头企业和中国最大的鞋类零售企业。**2012年**，该公司所在的百丽国际实现营业额328.9亿元，**截止2013年6月底**，**百**丽国际在大陆自营门店达到**18316家**，**港澳155家。**

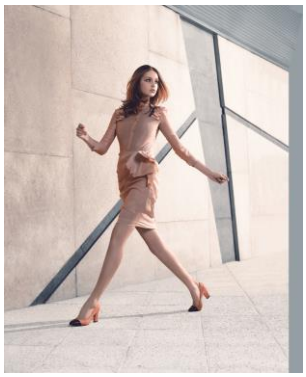
公司生产总部位于广东深圳市龙华新区大浪街道，**共**拥有分别位于东莞虎门、湖北姊归、安徽宿州、贵州铜仁等八个生产基地，**共**计占地面积约为**100万平方米**，**生**产系统生产员工近**35000人**；**公司生**产系统拥有自主设计和使用高效率、多品种的生产流水线**50多条**，**年生**产皮鞋近**3600多万双。**

百丽企业及品牌经二十年的发展，现已成为**国内第一、世界第二鞋**类企业。公司一直**秉承"用做人的方式做生意"的**经营哲学以及**"勤**奋换得成功**、科学争得**领先**、合作**赢得辉煌**"的企**业精神，**百**丽集团在管理上**"以人**为本"，**充分重**视人才在企业经营中的作用，**将"以分散式、开放式的管理**，实现人才培养的持续化，**人才能力**释放的最大化"**作**为企业的管理战略。

Company-owned brands include Belle, Teenmix, Tata, Staccato, Senda, Basto, JipiJapa, Millie's, Joy & Peace and Mirabell, etc. Distribution brands include Bata, Clarks, Hush Puppies, Mephisto, BCBG, Merrell, Caterpillar etc. For company-owned brands, the company mainly adopts a vertically integrated business model which covers product research and development, procurement, manufacturing, distribution and retailing. For distribution brands, the company operates the business in two different models, brand licensing and retail distribution.

With headquarter located in Shenzhen, New Belle has eight manufacturing bases in different provinces in eastern and western China. The total staff has topped 80,000, of which 35,000 are from manufacturing sector. Its manufacturing capacity reached 36,000,000 pairs per year.

New Belle is affiliated to Belle Group. The Group's business is broadly divided into two main segments – the footwear business and the sportswear business. Its turnover has reached RMB 3.289 billion in 2012. As at 30 June 2013, the total number of company-managed retail outlets of the Group reached 18,316 in Mainland China. The Group also managed 155 retail outlets in Hong Kong and Macau.




1、参观5楼培训中心
2、阶梯教室讲解百丽发展
下车
参观5楼实验室
1
2
生产车间一、二楼参观
3
参观电影院、图书室、
健身房等
4
5
上车
1、参观1楼大厅
2、广场合影

SHANGRI-LA HOTEL OVERVIEW

TOURISTIC INFORMATION

广州，简称穗，别称五羊仙城、羊城**等。地**处广东**中南部，珠江三**

角洲中北缘，**是中国的南大**门。广州有着两千多年的历史，**是**中国历史文化名城，历史最悠久的对外通商口岸，海上丝绸之路**的起点之一，有“千年商都”之称。广州是岭南文化的代表、是全国**华侨最多的大城市，**与北京、上海并称**“北上广”.

地标建筑

五羊石像、黄埔军校、中山纪念堂、镇海楼、白天鹅、广州双子塔、陈家祠**等。**

美食

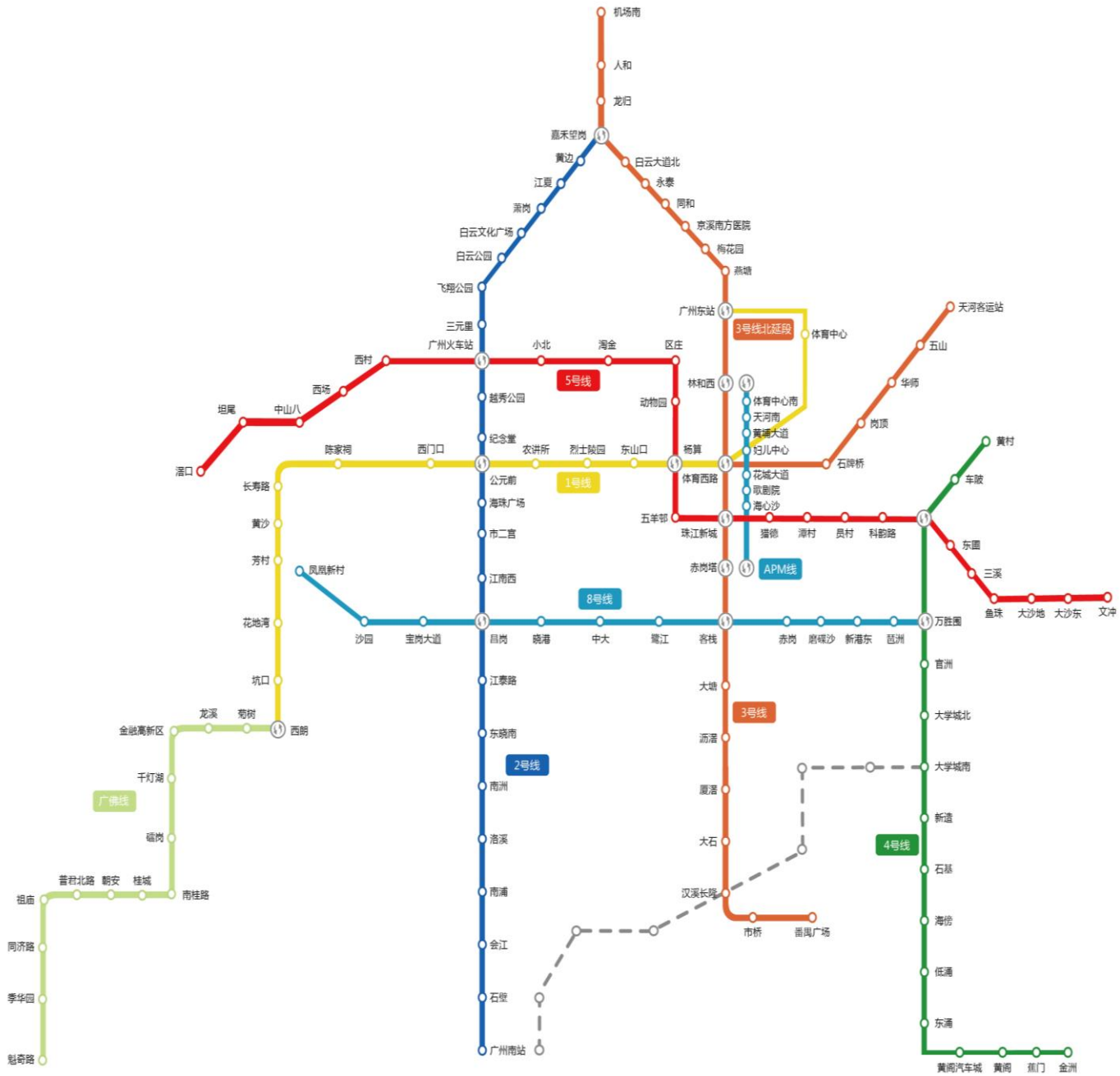
广州的饮食文化闻名全国，**是中国十大美食之都，所谓“食在广州”。分**为：粤菜、广府菜、广式点心、早茶

特色小吃：萝卜牛腩、云吞面、及第粥、艇仔粥、肠粉、荷叶包饭

戏曲

粤剧，**源自南**戏，**在**广东文化**中占有重要地位。**

Population	8.5258 million, who live in the urban district. 1.4172 million, who live in the county cities.
Language	Putonghua and Cantonese are widely spoken
Climate	Hot, humid, & rainy in summer; cool, dry, & less rain in winter. Average Temperature: 21.4-21.9
Urban traffic	Airport： Guangzhou Baiyun International Airport is about 28 kilometers from the city center. It is one of the three busiest air transportation hubs in China. Subway service: There are eight subway lines used in the city at present. The subway utilizes a stage fare system. The longer the journey the more you pay. At present, the subway has connected most important parts of the city, including Baiyun Airport, the Railway Station, East Railway Station, South Railway and Foshan City. Taxi service: The original price is 10 yuan (RMB), 2.6 yuan (RMB) for per kilometer.
Top attractions	Yuexiu Park, The Pearl River, Ancestral Temple of the Chen Family, Sun Yat-sen Memorial Hall, White Cloud Mountain (Baiyun Shan), Bright Filial Piety Temple (Guangxiao Si).
Cantonese Cuisine	The most famous dishes are Roast Suckling Pig (Kao Ru Zhu), Dragon Fighting against the Tiger (Long Hu Dou) - stewed snake and wild cat, Taiye Chicken (Taiye Ji) and Stewed Wild Dog Meat.


机场南
人和
龙归
嘉禾望岗
黄边
江夏
萧岗
白云文化广场
白云公园
飞翔公园
三元里
广州火车站
小北
淘金
区庄
西村
西场
坦尾
中山八
滘口
越秀公园
纪念堂
陈家祠
西门口
农讲所
烈士陵园
东山口
公元前
海珠广场
市二宫
江南西
长寿路
黄沙
芳村
花地湾
坑口
龙溪
菊树
西朗
金融高新区
千灯湖
广佛线
福岗
普君北路
朝安
桂城
南桂路
祖庙
同济路
季华园
魁奇路
凤凰新村
沙园
宝岗大道
昌岗
晓港
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南浦
会江
石壁
广州南站
大塘
沥滘
厦滘
大石
汉溪长路
市桥
番禺广场
广州东站
3号线北延段
体育中心
林和西
动物园
杨箕
体育西路
五羊邨
珠江新城
赤岗塔
体育中心南
天河南
黄浦大道
妇儿中心
花城大道
歌剧院
海心沙
猎德
潭村
员村
科韵路
石牌桥
岗顶
华师
五山
天河客运站
万胜围
赤岗
磨碟沙
新港东
琶洲
官洲
大学城北
大学城南
新造
石基
海傍
低涌
东涌
黄阁汽车城
黄阁
蕉门
金洲
黄村
车陂
东圃
三溪
鱼珠
大沙地
大沙东
文冲
1号线
2号线
3号线
4号线
5号线
8号线
APM线