

WIM - WASTE INTERCULTURAL MEETING

If you have received an invitation for an unusual meeting called WIM, and you have no idea what is this about, I'd like to tell you what it is and why you should not miss it!

WIM stands for WASTE Intercultural Meetings, a funny new and relaxed idea of the 5th generation. It started in July 2006 and will be held on a monthly basis, at least in the winter semester.

The aim of these intercultural meetings is to share in free style presentations different aspects of our countries of origin, and also to try out all kinds of different ways of presenting a topic, so that one day we master the elocution art, and why not, open our taste to different kinds of food.

So far presentations from Brazil, China, India, Malaysia and Peru have been presented. And more countries are still to come. Thanks to all the students actively involved for their initiatives and enthusiasm. So, the next time you receive such an invitation, we would warmly welcome if you think twice and join us to have a nice evening.

• Carlos A. Perez



AWARD FOR FABIO CHUI PRESSINOTTI FROM THE WASTE-GENERATION 2004

In the course of the "81. Siedlungswasserwirtschaftliches Kolloquium" on 12 October a prize for an outstanding thesis was awarded to M.Sc. Fabio Chui Pressinotti from the WASTE Generation 2004, and Dipl.-Ing. Katrin Frey, a former student of environmental engineering at Universität Stuttgart. The award was sponsored by Ingenieurgesellschaft Nussbaum and Planungsgesellschaft Mörgentahler Ingenieure. Congratulations to the prize winners!

Fabio's master thesis „A Decentralised Wastewater Treatment Solution for Tourist Resorts" was part of the project "MODULAARE-Integrated modules for high-efficient wastewater treatment, solid

waste disposal and regenerative energy production in touristic resorts". The test plant was implemented at a holiday resort in Turkey. Sustainability and finding a decentralized solution for wastewater treatment, solid waste management and energy production are pillars of this project.

Fabio is currently working on his doctorate at the Department of Wastewater Treatment at the Institute for Sanitary Engineering, Water Quality and Solid Waste Management (ISWA). He is working on a project in waste water treatment, to be more precise, it is called "Export-oriented research and development in the field of

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Reports and Stories of Students

SURVIVING THE FIRST SEMESTER

Facing the beginning of the first semester was something frightening. The Official WASTE Program was finally starting and not in a gentle way: 10 subjects needing to be faced! The schedule was not tight but keeping up with all the subjects was definitely a challenge. Especially because life is not only about classes. It is amazing the effort you also have to do to combine being in touch with family and friends back home, getting together with your new friends, discovering how great it can be to get to know people, with na-



tionalities and cultures so different than yours, willing to share with you, yours and theirs, happy and sad moments. The toughest proof of all was the exam period. With 11 exams to take (yes, we cannot leave out German!) in no more than 5 weeks. It was writing an exam and, right after, returning home to the books. Hardly no time for sleeping, breaks only for cooking, eating, laundry and groceries! But amazingly it passed and everyone survived it, realizing after all that it was possible and also knowing that the tools to face the 2nd Semester were already in our hands... and brains!

• Tatiana Medon

>>> FABIO CHUI PRESSINOTTI

wastewater treatment. Application of trickling filters under country or climate specific conditions." The intention of the project is, as stated on the project website, "to make this sustainable and cost-effective technique ready for applications in newly industrialising and developing countries in warm climate zones and to give consultants an advantage in competition."



The relation of wastewater treatment and costs is also an important issue in Brazil, Fabio's home country. For more information visit:

www.iswa.uni-stuttgart.de/awt/en/research_current.html#modulaare.

• Ann Kroll

News and announcements

INFORMATION FROM THE OFFICE OF INTERNATIONAL AFFAIRS

Hallo to all WASTE students!
My name is Ursula Habel and I have been working at the Office of International Affairs (IA) since May 2000. I am mainly in charge of scholarship holders (DAAD) and doctoral students but have also worked with different Master's programs over the years. In 2005 I took a break off my work at the IA and lived for one year in Brazil, mainly to improve my language skills. Since I love travelling, learning about other cultures and languages, I really like my job at the IA office because you get to know people from all over the world – right?

Since spring of 2006 I am now the contact person for students in the WASTE program and some of you may know me already.



The IA is responsible for international relations and the co-ordination of exchange and partnership programs of the Universität Stuttgart. We advise international students on all general questions and concerns related to studies and life in Stuttgart, and support students of the Universität Stuttgart who want to study abroad.

Extracurricular Activities: In order to support integration between international and German students, and to assist international students to become acquainted with the region, the people and the customs, we organize a recreational pro-

gram of extracurricular activities for the students of the Universität Stuttgart. This program includes one-day excursions to attractive sights in Baden-Württemberg, guided tours of local companies, parties

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DATES TO NOTE

- Waste Intercultural Meetings "WIM" at 5.30 p.m. on 5 Dec., 9 Jan., 6 Feb. (IVD, room V 23.01)
- 2 - 5 Jan.: Arrival of new WASTE students
- 8 Jan.: Start of precourses
- 9 Jan.: Official Welcome for the 6th WASTE generation
- 6 Feb.: WASTE Welcome Party
- 5 March: Start of German language classes (placement test, presence is required)
- 12 - 14 April: 3. Internationaler Umwelttag, Freiburg
- 12 July: WASTE Summer Party
- 11 - 12 Okt.: WASTE Club Excursion to Bad Säckingen (Rheinfall, Hydro-power Plant, Musical...)

>>> INFORMATION FROM THE OFFICE OF INTERNATIONAL AFFAIRS

and get-togethers. To meet the demands of our various target groups we offer activities in English as well as in

German. A list of our current program can be found on the internet: www.uni-stuttgart.de/ia/internat/services/our_services.html



Social Advising:
Do you need to consult a medical doctor, are you experiencing some problems with your studies or need support in dealing with German authorities? That's when you can contact me. I will also support you if you need help with finding a private apartment or getting a family visa.

If you want to visit us...



...Our Office on Campus Vaihingen:

Office of International Affairs
Internationales Zentrum (IZ), Floor 1
70569 Stuttgart

Office Hours:

Mon - Fr 10.00 a.m.- 12.00 p.m.
Mo/Wed 1.30 – 4.00 p.m.

• Ursula Habel

WASTE FABRIC BAG DESIGN CONTEST

At the WASTE Graduation Ceremony 2006, the winning motive of the WASTE Fabric Bag Design Contest was presented. The winner was Cristián Acevedo, who already had made valuable contributions to the previous two Graduation Ceremonies in the form of flash animations showing pictures of the graduating students. Cristián was congratulated by Vice Dean Prof. Sawodny and awarded an invitation to a free membership of the WASTE Club, along with a small gift (by the way an "Official WASTE Coffee Mug", sporting the winning motive).



The Design Contest was held shortly before the Graduation Ceremony. The idea was to hand out the bags to the participants of the ceremony as a nice souvenir and to further promote WASTE. Somehow

it had struck me that fabric bags would be the ideal publicity carrier (in the truest sense of the meaning...). Although the contest was held in a quite spontaneous way, even so eight persons, mainly students from the 5th generation, submitted twelve contributions. The Jury chose the motive that was best able to represent the spirit and contents of the Study Program WASTE, and we hope you agree to the choice. We are thankful to Cristián, who after the Jury Session spent even more time and effort on helping us to adapt the motive to the corporate WASTE design to make it really perfect.

Unfortunately, the printing company we chose, then was unable to print the bags in time for the Graduation Ceremony... so delivery had to be postponed. Anyway, at the Graduation Ceremony we distributed vouchers for the bags to all participants. You can collect a bag directly from the WASTE Office from 18 December 2006 on. Please, only if you are

not in Stuttgart any more: postal delivery is possible with prepaid envelopes; you can send us an e-mail, and we can tell you how much it is. The bags will also be helpful giveaways for fairs and other public appearances of WASTE, gifts for guests and so on. Special thanks go to Prof. Günter Baumbach from IVD-RdL, who supports the Study Course not only as Program Coordinator and lecturer but also finances this set of fabric bags.

Well, to a lot of students and other involved people, bags seem to be nice – but T-Shirts would be even nicer... Of course they are more expensive, too. So for T-Shirts to be printed next spring, we would warmly welcome proposals from possible sponsoring companies. Time is right for companies to invest in the steadily growing international network of WASTE professionals.

• Christine dos Santos Costa



Recent events

IMPRESSIONS OF THE GRADUATION CEREMONY 2006

The Graduation Ceremony took place on 23 November, as always, at the "Villa Eulenhof". And we think everybody who was there would agree it was just perfect! Since one picture says more than a thousand words, let us show you now what went on.

SPEAKERS AND GRADUATES

Especially 4th generation class speaker Ceren Balkanay inspired the audience with her witty and heartfelt speech, causing goosebumps even to guests who had



never met the graduates before. Many thanks also go to speakers Vice Dean Professor Sawodny, Program Coordinator Professor Baumbach, and invited speaker Bernd Ostgathe, Environmental Communication Advisor of Sony Deutschland GmbH.



Vice Dean Prof. O. Sawodny congratulated the graduates, handing over certificates



A group picture of 2006 graduates (most of them). They are the 4th generation of WASTE students already!

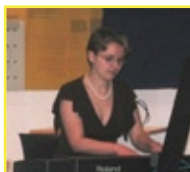
AMBIENTE AND BUFFET

The 5th generation students created a warm atmosphere with the elegant decoration in blue and silver. The ambience was "enlightened" by a WASTE artwork designed by Christine dos Santos Costa and mainly implemented by Herbert Höll and Ralf Nollert from the IVD workshop - special thanks to the latter! The marvellous buffet grew in the hands of the 5th generation and under the eyes of the astonished visitors, containing all varieties of international dishes and desserts. We are thankful to 5th generation for the decoration effort and the nice dishes even including the traditional graduation ceremony cake.



MUSIC AND ARTS

Graduate Sebastian Platz played two violoncello pieces. First "Adagio for Verdran Smailovic", a thoughtful piece of Nigel Osborne – a composer from Edinburgh, where Sebastian is writing his Master Thesis (see newsletter No. 1), and a classical Menuett of Johann Sebastian Bach. In the middle of the program, 5th gen. student Mila Kostieva presented the piano piece "Blues" of russian Composer Sasco. Last but not at all least, we were proud to have Germany's youngest Musical Composer Jochen Frank Schmidt presenting the song "Nicht ins Konzept" from his second musical „Herzklopfen“. In the musical, the song is sung by a kind of "crazy professor" - so it matched the occasion (yes, at least our profs. are crazy about teaching!).



Gentle and uncomplicated as he is, Jochen has even agreed to give the "WASTE family" members a special backstage tour if we happen to visit his third musical "lichterloh", which is going to start in September 2007.

Jennifer Bilbao and friends from the 4th generation prepared this action painting which then took place after the reception had started. It was a really great idea! The ceremony guests were given a square of the canvas and instructions on how to paint it, and only at the end you could "get the whole picture"... It was real fun to discover the creative side of WASTE. The result was a very nice souvenir to embellish the WASTE office. Thanks a lot for this surprise. We also very much enjoyed the video presentation

produced by Ceren Balkanay, Ajay Bidwe and Carlos Pérez. Thanks to everybody who contributed or participated, for such an agreeable evening.

Good luck generation 2005!



Been Ang (3rd gen.) was one of the enthusiastic painters

• Christine dos Santos Costa, Matthias Bendig

5TH WASTE AT BASF

On October 23rd, we, the 5th WASTE generation, had the opportunity to visit one of the bigger and more impressive companies all over the world, which accounts for net sales of 42,7 bio. Euro per year and has 94,000 employees. It is the chemical company BASF.

The day started with a presentation about all business segments, so very soon we realized how our daily life is so often related with different BASF products hidden under other brands. Very important for us now, we were told which steps can be taken to start a career in a place where innovation, creativity and sustainability is highly valued.



After a bus-tour around some areas, the size of the plant became an issue. No matter how many times we had heard it was big, you must be there to understand why "huge" is not enough. The big effort, which is made to keep all areas clean and ordered is easy to note. Be prepared; your chemical knowledge could be under test while finding your destination since chemical names are used for the streets.

One very important plant from the 355 ones, the steam cracker, was introduced to us by its own plant manager. There, the first thermal step takes place and provide raw materials for plenty other processes. After taking a look at the real scale furnaces and distillation towers, we went to the R&D department where the staff is deeply involved in finding new solutions and improvements of the processes. We want to thank Dr. Eiden for making such an interesting day possible!

• Tahnee González,
Carlos Pérez

ENTSORGA FAIR

Every 3 years the Federal Association of the German Waste Disposal Industry (BDE) organizes the Entsorga trade fair under the slogan "Think global, act local. Today's technology for tomorrow's environment". This is a very interesting event being a platform for showing new ideas, technology and applications in the waste management and waste water fields. This year the focus has been put more towards environmental technology, therefore "Entsorga" changed its name into "Entsorga-Enteco". The offer has been particularly enriched by promising product areas, such as renewable sources of energy. Such an occasion does not occur so often and as Cologne does not lie so far away from Stuttgart I decided to take a look. I must admit to have been really impressed of the many different companies and institutions showing their latest offers and advisors willing to answer any of your questions.

• Gosia Stein-Brzozowska



WASTE SUMMER PARTY 2006

In spite of the rain, decoration blown off by the wind, wet clothes... against all odds and thanks to the support of the WASTE Club and the hard work of all the people involved in the organization, the WASTE Summer Party 2006 took place on July, 13th. After the opening words by the Program Coordinator, Professor Günter Baumbach, the party officially started.

First, we had a taste of the ancient Chinese martial art of Tai Chi Chuan: some techniques, slow motion routines and postures of this famous art were shown by Qingjin Yang, a Chinese T'ai Chi disciple. Later, some of us got ready to dance to

the rhythm of samba and rock & roll, under the direction of the dynamic polish dancing instructor Agnieszka Pluwak, who led the group into the basic steps of these music genres. In the meantime, almost 40 participants in 16 teams were demonstrating their skills in the exciting tournament of Table Football, while others preferred to have a more relaxing time talking and sharing in the nice atmosphere created by the collection of colorful water-pipes. A demonstration of grilling expertise complemented with specialities from around the globe, assured that the stomachs of all those present were happy and full.



The Summer Party not only was an opportunity to have fun and relax before starting the most stressful time of the semester (exam period), but also a perfect occasion for sharing with the students, Alumni, lecturers, and staff from IVD and WASTE Office.

• Tahnee González, Carlos Pérez



Life after WASTE

MY EXPERIENCE IN THE SHELL COMPANY

Having grown up in a middle class family of a developing country, I have always been particularly sensitive to the disparities that exist in societies, countries and technology. The advent in Germany, working at ITT, grasping the WASTE degree and finally joining the Shell were undoubtedly the factors to bridge these disparities. Herewith, I would like to share the different facets of life after WASTE.

"Capacity, relationship, achievement, and Technical" were the four key selection criteria for the Shell entrance. WASTE gave me the opportunities to sharpen all these skills esp. relationship. After qualifying for the basic interview, I faced the assessment center. This included a group discussion, a case study and finally a technical presentation followed by a quite rigorous technical interview.



After the successful procedures, I was appointed at Shell as an APC (Advanced Process Control) technologist at the Rhine-land refinery, Cologne. My work comprises both the technical as well as managerial tasks. In general, APC is relatively new to industries and has got a huge money generating potential.

The first foreseen problem at work was that of German language, but I realized that language can never be treated as hurdle in technical fields. Of course, it slows you down for a moment but ultimately it's your knowledge and content that decides your career path.

I was lucky to get a very interesting and challenging first assignment to design an automatic controller for the HCU (Hydro-cracking Unit, where the waxy is transformed into the valuable light products like kerosene, naphtha, etc.). At

the beginning, the gained environmental knowledge never seemed to be a part of my job but after some time I realized that environmental issues can straight forwardly be implemented into the basic control model. That means saving a lot of straight-end pollution problems at the root level only.

The learned relationship skills (i.e. from the different activities of my organization named SPIC MACAY, HR activities at ITT etc.) at University of Stuttgart could be well cashed in the form of managerial part of my job. It was well evident to me that to get success I had to have full support of my operators. In fact, I even needed to learn a bit of colonial German to mix with them and as a result my managerial work has been transformed into my hobby.

Concluding I'd like to say that based on my experiences I have discovered that life after WASTE has an inherent unprecedented nature, which I believe is duplicable only by committing serious dedication on a robust platform.

• Gaurav Kedia

MY DOCTORAL THESIS

As Environmental Chemist the experience acquired through the WASTE program was a real "dream came true". In fact, in my country Chile, as well as in most Latinamerican countries, the environmental issues are just a "new problem" to solve.

Moreover for me it was a real challenge to deal with all the engineering topics, since I realised how different it is to see everything from a "macro" scale and not only care about atoms and molecules as I was used to.

Anyway, now to my experience after that first "impact". While I was developing my Master Thesis at the department of Fuels and Measurement Techniques at the Institute of Process Engineering and Power Plant Technology (IVD), concerning mercury behavior in flue gases, the possibility to continue with a Ph.D. study emerged. This was great news, but the decision was not so easy. Although the scientific world has always been my passion, this opportunity was completely different. First of all it would not be 100% like a chemist, I mean working only at the laboratory as I was used to, and on the other hand the german language would be another interesting challenge. Furthermore my husband should look for

a good chance to develop his career here in Germany and that was also an important point to make a decision.

Finally we decided to take this "risk" and come back. Now I can tell you it was the best decision.

This year I officially started my Ph.D. studies at IVD, working at the same department were I developed my Master Thesis. The first sign that everything was running well was the publication of my Master Thesis in the international edition of the journal Power Plant Chemistry in June of the present year. At the same time, we got a project financed by Lentjes GmbH, a leading world-wide company for process and plant engineering. One of the company services is to supply plants for energy generation and to clean flue gases from power plants.

Within this field their interests are focused to develop efficient cleaning systems which allow the emission limits accomplishment for the different pollutants released during com-

bustion. Thus my task is to understand mercury behaviour in flue gas desulfurisation units and my final objective is to develop new strategies for mercury removal, employing the potential of the desulfurisation process.



Additionally, during this short time I had very interesting opportunities to learn and to go deep into the Power Plant knowledge. For instance in August, I took part in a two-week program course offered by VGB PowerTech

in Essen, called "Einführungskurs in die Kraftwerkstechnik". On that opportunity I attended some lessons, visited different facilities in the so-called "Ruhrgebiet" and I had the possibility to interact with some German students from the same area. Then in October I took part in a "one-week" measurement campaign at a waste incineration plant, a very helpful experience to understand how the cleaning systems work in a real facility.

Currently I am working on my second publication, obtaining my first results, preparing some meetings and enjoying all this fruitful time here in Germany.

• Carolina Acuña-Caro



Funny stories

TAX TROUBLES IN STUTTGART

Imagine yourself driving back to office from lunch when you come across a caution sign indicating there would be a road closure on the right lane. And as you follow the trail of the slow traffic expecting to see road works, you spot someone using a hand-held vacuum cleaner on the road surface. On 26.07.2006, I was that "someone" (actually working on a scientific project investigating the effects of road cleaning measures on fine particle concen-

trations in the urban air...). Judging from the bewildered looks and the number of "thumbs up" from the road users, I believed that this sight has struck their funny bones pretty hard. As they have had their share of laughter, I got mine in return when I dumb-founded one curious passerby after telling him "This is what you have to do when you default your tax payment in Stuttgart..."

• Been Ang



WHAT ABOUT AUTUMN?

How many autumns have you seen? I bet a lot! But for some of us this is new, the colour of the trees, the falling leaves...

Did you know that the colour of the leaves depends on fast changes in temperatures and on the amount of light during the day? In Autumn, nights are longer and colder, causing the disappearance of chlorophyll from the leaves letting other colours (like red, orange, brown) to act,

producing amazing combinations. These pigments function as sun block for the leaves allowing them to make photosynthesis and survive.

Pretty amazing, right? Can you imagine that in some of our countries this wonderful spectacle of the nature does not exist?! ...remember to pay attention to it, it is unique!

• Daniela Prado



VOLKSFEST

Beer everywhere! ...That is what Volksfest is all about. It is like a little wonderland for people of all ages! (because also kids go there), where you can also find from candies of all the sizes and colours till "wurst" of all kinds!



People one after the other order the huge one-liter jars full with foaming Beer. The waitresses and waiters carry up to 10-12 glasses at a time, making the typical image of Volksfest real.

People dancing and singing on the tables, young, old, doesn't matter, everyone has fun and it really is a great time to party and relax and make friends while enjoying the worldwide famous German Festival!

• Daniela Prado

WALLET ADVENTURE

When in February I lost my wallet on a regional train, with money, credit cards, and identifications inside I thought about the time that I would have to spend on paperwork and renewals. What I was not expecting was to receive, some days later, a letter and a list with all the items found inside my wallet, telling me that my wallet had been found in Augsburg!

One time is luck, but two times.... Later on I was in Berlin for the World Cup final and someone stole my wallet! This time I never dreamt that it would reappear this time, but again, about 15 days later, I got a letter from the police... I could pick up my wallet at the post office here in Stuttgart. These things occur only in Germany!

• Tahnee González

The WASTE Club Stuttgart e.V.



BEHIND THE SCENES OF „NEUE MESSE & INT. CONGRESSCENTER STUTTGART“

On 1 August 2006 the WASTE Club organized an excursion to the construction site of the "Neue Messe & Int. Congresscenter Stuttgart". The site is just a stone throw away from the Airport Stuttgart and easily accessible by car or S-Bahn.

Our tour started at the construction site office with an introduction to the history of the construction site: From finding the perfect spot for a construction site, via the invitation to bid to the status quo of the constructions.

Dressed in yellow waistcoats and equipped with special socks, rain boots and a helmet for safety issues the actual visit of the site began at what is about to become the "Messepiazza". Our guide took us through the exhibition halls and explained the design and the equipment e.g. the ventilation and the supply system for water, electricity and telecommunication. We were also



lucky to see how the ceiling of the main hall takes its curved shape: Countless Bags filled with rubble from the site, each weighing about 1 ton, were hanging from the roof tree. We continued the tour visiting the smaller halls and the "Congresscenter". We learnt that the whole exhibition centre is built on different levels. This allows the separation of delivery trucks and visitors since the access for all traffic lies on a lower level. Though the whole project is really impressive (the gross exhibition area of all eight exhibition halls sums up to 95,000 m²), one of the highlights of the "Neue Messe" is definitely the multi-storey car park in the shape of two fingers across the motorway A8 which can accommodate 4000 cars. If you would like to learn more about the "Neue Messe", visit www.messe-stuttgart.de/neue_messe/infra.htm. The site is also available in English..

• Ann Kroll

Where to go in Europe?



LISBOA (LISBON)

Lisbon is the capital of the most western european country, Portugal. One perfect day in Lisbon could be walking through the city center, do some shopping, have a good soup in a little café, walk through „PraçadoComercio“, catch the train at „Cais do Sodré“ and get to the rough and beautiful beaches in direction of Cascais. Get back to Lisbon before sunset and walk amongst the beautiful houses with the wall tiles, especially the blue-and-white ones called „azulejos“ in the quarters Alfama and Bairro Alto, watch the sunset at the „Miradouro da Santa Catarina“ with a cup of beer, then walk into one of the little fado restaurants to have a nice meal and a dark red or light green wine, and listen to the passionate and funny traditional singers.

What else to see:

- Belém with Torre de Belém, Mosteiro do Jeronimo, and the huge monument of the famous Portuguese navigators
- Cristo Rei: the smaller version of the statue of Rio de Janeiro
- Bairro Alto nightlife
- Gulbenkian Museum, fantastic art and jewellery collection; the great Oceanário
- The yellow and red line metro stations, the old tramways (eléctricos), the elevadores...

If you stay longer than three days:

- Sintra with the beautiful castles Palácio da Pena, Palácio Nacional de Sintra, Castelo dos Mouros
- Fátima, Porto, Algarve
- ... and much more!

• Leman Altinisik



WASTE NEWS

Newsletter of the study Program
WASTE and the
WASTE Club Stuttgart e.V.

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Christine dos Santos Costa

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