



International Union of Pure and Applied Chemistry
Committee on Chemistry and Industry

Chair Dr. Bernard West

COCI Annual General Meeting and Project Work Group Meetings.
BEXCO, Busan, South Korea.
August 9th and 10th 2015

MINUTES

Agenda Topic Key

D = Decision needed.

I = Input needed.

F = For information

Participants:

COCI: Zaiku Xie, Ana Marakova, Paul Baekelmans, Robert Audette, Bernard West, Carolyn Ribes, Kazuhiko Ishikiriyama, Daniel Bernard;

Guests: Neeranert Chaenhtong neenart@dss.go.th, Katarzyna (Kasia)

katarzyna.mocniak@gmail.com (UK); Colin Humphris cjhumphris@btinternet.com; Danniebelle

Haase dhaase@dow.com; Shan Zou shan.zou@nrd-cnrc.gc.ca; HN Cheng, Chasheng Wang

(representing China) wangcs@sinopechk.com; Jonathan Babalola; Dr. B. Saha

(drbsaha@rediffmail.com); Gersharn Grover (gs.groveer@ncl.res.in); Mark Cesa; Jung-II Jin;

Michael Droescher; Lynn Soby; Roland Andersson; Mukund Chorghade

(chorghade@comcast.net); Ahmed Youssef Hmdyssf@yahoo.com; Hemda Garelick;

Sunday August 9th 2015

I. ORIENTATION TO IUPAC AND COCI.

1. Introductions [BW] Round table member introductions.

Welcome to invited visitors, STP Fellows and Speakers. COCI members and visitors gave a brief introduction of themselves

2. The membership, structure and functions of COCI: 2014 – 2015 [F] and for 2016-2017 [BW]

West reviewed the roles and responsibilities of the COCI members. TM are expected to contribute to projects important to COCI. Others are welcome to contribute to projects and activities.

Secretary-General Humphris shared remarks and IUPAC highlights. IUPAC has updated the strategy; the world of chemistry has changed and it was time to refresh IUPAC priorities. Project system will continue to be the key mechanism for accomplishing work. COCI is asked to consider the strategic plan as part of our planning. The financial situation for IUPAC has changed due to reduced profit from publishing. Publishing has been outsourced to De Gryuter, which stabilized the situation. There will be a discussion about a proposed increase in national dues during the Council meeting. Current mechanism

for calculating dues requires currency exchanges, and the strong US dollar has resulted in a deficit situation. Discussing potential changes to Chemistry International, especially regarding hard copy printing/distribution. Affiliate membership does not cover the cost of printing and mailing. The IUPAC website is being updated and will be available for multiple format. This will be more of a two-way venue with opportunities for members to post information. Chemistry International has focused on output of projects and technical work, but there are also chemistry-related topics that IUPAC may speak on. This includes chemicals management, chemical safety, etc.

Lynn Soby will provide a demonstration on the website during this meeting; she welcomes feedback. We will review the 1 page summary of the strategy later in this

3. Approve minutes of 2014 AGM in London UK [CR]

These notes were sent in advance of the meeting for review. The minutes for the meeting were approved by the committee. Ribes will submit them to the Secretariat to post on the website.

4. Budget and Finances [BW, CR]

Project commitments and expenses were reviewed:

Great Lakes Regional Meeting: any additional would be focused on follow-up regional meeting.

West projects; Safety Training Project Workshops (also funded by CRDF) ; Responsible Care book (some income from sales);

Lechter: book is completed.

Thales/Nano: funds the Thales/Nano prize on Flow Chemistry (funded for 5 awards).

Hanley: Company associates reengineering project, phase 1.

Ribes: Distinguished Women Awards for 2013 and 2015.

The proposed budget for 2016-2017 will remain the same for Standing Committees. This will be discussed at the Council meeting on Wednesday/Thursday.

5. Review Election process for 2015 and seek input for the next process in 2017.

Proposed slate for membership is listed below. Fisher has timed out and is leaving the committee; COCI valued his contributions to the Committee, especially for establishing the Thales/Nano prize.

Veronica has asked to leave the committee. We propose Baekelmans and Xie become TM. We still have three open positions for AM and are seeking suggestions. There are limitations – only 1 TM/AM per country is allowed to ensure best representation from around the world. Any countries or regions with 2 or more company associates can have a NR. NAO have been contacted to submit candidates. We seek diversity in all forms and especially seek people with energy and time to engage in the activities of the committee. We would like to have a NR from Brazil, if possible.

Can we estimate time TM spend? Carolyn: with 1 project and Secretary work, about 4 hours a month. (The women in chemistry project has taken more time since she is passionate about it). Ana has been working on SAICM about 4 hours/week and she is very passionate about this topic; reading all the SAICM documents in English is time consuming. Bernard, as Chair and STP leader, invests about 4-8 hours/month and most recently 2 hrs/day to prepare for the meeting. As Chair, there is some additional work. The workflow is not constant. Estimate for members of committee working on a project, estimate 1-2 hours per week.

NAME	STATUS	Term To next	Possible Ultimate TERM TO	NAO
Dr Bernard West	TM-Chair	2017	2017	Canada
Dr. Carolyn Ribes	TM-Secretary	2017	2023	USA
Dr Anthony B Hanley	TM	2017	2021	UK
Prof. Kan-Nan Chen	TM	2017	2021	China/Taipei
Dr. Kazuhiko Ishikiriyama	TM	2017	2021	Japan
Dr Igor G Kukishkin	TM	2017	2021	Russia
Dr. Paul Baekelmans	TM	2019	2021	Belgium
Dr Zaiku Xie	TM	2019	2021	China/Beijing
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Dr Daniel Bernard	AM	2019	2019	France
Dr Chang-Hyun Choi	AM	2019	2021	Korea
Dr Lene Hviid	AM	2017	2021	Netherlands
OPEN	AM			
OPEN	AM			
OPEN	AM			
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	NR			
Dr. Frank J. Chen	NR	2019		China/Taipei
Dr Anna Makarova	NR	2017		Russia
Dr Robert Audette	NR	2017		Canada
Prof. Jacques Desbrieres	NR	2019		France
Jody A. Jurkiewicz Kocsis	NR	2019		USA
Mario Marchionna	NR	2019		Italy
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Prof. John Dymond	Div I			UK
Dr. Markku Leskela	Div II			Finland
Prof. Janine Crossy	Div III			France
Dr. William Work	Div IV			USA
Dr. Zoltan Mester	Div V			Canada
Dr. Keiji Tanaka	Div VI			Japan
Dr. Tom Perun	Div VII			USA
Prof. Gerry Moss	Div VIII			UK
Prof. Chiu, Mei-Hung	CCE			China/Taipei
Prof. Leiv Sydnes	CHEMRAWN			Nordic
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Comments:

NR members may be nominated by NAO with 2 or more Company Associates; or for a region with 3 or more company associates.

Representatives from Divisions and Committees are tentative, pending re-appointment by those units.

COCI members endorsed the slate as proposed without objection. (Ribes/Kazuhiko)

The procedure for approval is that the Executive Committee and the President will consult on the rosters of all the Standing Committees at or before the EC meeting later in 2015. When approved, appointment letters will be sent to all members from the Secretariat. (The SC rosters are not an item for Council to address.)

II. REVIEW OF MAIN ACTIVITIES IN 2012-2013 BIENNIUM

5. Review of report and Presentation to BUREAU and Verbal Report on April Virtual Bureau meeting [BW]

Ribes described the structure of IUPAC (Bureau, Executive, Council, Divisions, and Committees). West provided the update that he will share with Council. COCI is focusing on a few key priorities: 1) Company Associates reengineering project: completed a survey of IUPAC leadership regarding views of engaging with industry. 2) Safety Training Program: funding from CRDF, several Fellows trained in this biennium; book on Responsible Care: outlines the program and provides case studies with positive and negative examples for a workshop format (Copies available from Bernard). 3) Regional workshop: we seek a volunteer to lead this, perhaps in conjunction with the Flow Chemistry conference in Beijing in September, Member Xie expressed interest recently. 4) Thales/Nano prize. 5) SAICM – project under development.

COMMENTS ON IUPAV STRATEGY REVIEW

Mark Cesa, IUPAC President, described the driving forces for updating the plan: the existing plan was 12 years old; IUPAC is approaching the centennial and needs to have a clear direction; chemistry has evolved and continues to evolve rapidly – for IUPAC to take advantage of its unique role and opportunities, we needed an updated plan. Includes mission, vision, core values, and goals/objectives. It is important to take advantage of our deep knowledge (in this case, how industry works, how industry can contribute to IUPAC success) and how we can contribute to solving global challenges. The Task Group, with broad representation of IUPAC and outsiders, did a survey to understand viewpoints in and outside of IUPAC regarding what IUPAC contributes, what would characterize a successful organization. Task Group did SWOT (Strengths, Weaknesses, Opportunities, Threats) and the environmental trends; they worked with a facilitator to bring all this information together and synthesize a strategic plan.

The core values describe how we work and serve humankind. A unique power of IUPAC is that we can draw on chemists from all over the world. We are an international objective organization that can convene chemists and scientists to discuss technical and non-technical topics. Emphasis is on making IUPAC more effective (infrastructure) and on applying that IUPAC expertise to solve global world problems.

The short description below is up for endorsement at the Council meeting; it will be shared and posted on the website. Next steps: form task groups to address the objectives.

Comments:

Ribes: enjoys the core values, inclusion of internal and externally focused goals.

Baekelmans: would like to see more IUPAC product promotion in marketplace (aligns with objective of branding IUPAC in mind of stakeholders).

West: how we work with industry, value proposition, aligns with this (Company Associates project is very relevant here).

Haase: As an industrial chemist, this is familiar. Why don't stakeholders understand the value of IUPAC, why is branding important? Is the speed of progress one of the issues? (Cesa: there is a perception that we may move slowly and that our communications could be better and more frequent). What will the rebranding entail, how will stakeholders see the value? Image is important, not just the value but also the visual images. (Cesa: the task group hasn't been formed on this yet, but should start soon. Updating website important, but also how all IUPAC volunteers represent the organization and how we communicate to our national associations, colleagues, etc).

West: How will this come across for different cultures (Japan, China, Russia, India, Africa, etc.)?

Wang: Chinese are very concerned about chemical industry; the more we can do to describe how chemistry solves world challenges and drives improvements, so the improved communications and branding will be important.

Grover: the structure of objectives is clear; it would be helpful to see timeframes. Example of RSC that has seen positive change due to their activities; let's use these examples. (Ribes: recent RSC survey that population was not as negative on chemistry as chemists expected).

Cesa: Objectives are meant to be short term.

Jung-II Jen: attracting and communicating with company associates has been an issue. In his country, they decided to focus on 1 big industrial organization, with full time staff members, to engage with industry. When he shared the IUPAC history book with this organization, they were impressed and provided significant funding for the IUPAC WCC. So reaching out is important, share the examples of what we have accomplished.

West: there are industry organizations in each country, as well as ICCA (International Council Chemical Associations, the umbrella organization), but we haven't found the key yet to engage fully with them. Maybe the SAICM linkage will be helpful, since we need something of appropriate size to attract their attention.

Makarova: Her experience with inter-governmental organizations and industry; it is good if organization has clear goals and topics of interest. Wonders if industrial usage of CAS names dilutes the IUPAC nomenclature need. So she recommends we find another key activity that can make IUPAC central to industry.

Audette: Strategy Review looks good, need to indicate who the stakeholders are on the one page document.

Cesa: Our stakeholders include: NAO and ANAO, volunteers, Fellows, chemistry community: practicing chemists, organizations that depend on chemist to do work, industry, academic, educators, government.

Baekelmans: differentiating our products is important. Document mentions products and services, what those are and how we communicate about them has involved, and we need to think about how we differentiate that. Engaging with CEFIC, ICCA, is important.

Cesa: Strategies are living documents, they need to be assessed periodically, determine what progress has been made, and adjust the strategy to keep the forward focus. He asks meeting participants to share their thoughts with the NAO and Council Reps since this is for endorsement.

<p><u>IUPAC Strategic Plan 2015</u></p> <p>VISION</p> <p>IUPAC is an indispensable worldwide resource for chemistry.</p> <p>MISSION</p> <p>The International Union of Pure and Applied Chemistry is the global organization that provides objective scientific expertise and develops the essential tools for the application and communication of chemical knowledge for the benefit of humankind and the world.</p> <p>IUPAC accomplishes its mission by fostering sustainable development, providing a common language for chemistry, and advocating the free exchange of scientific information.</p> <p>CORE VALUES</p> <p>We serve humankind by advancing chemistry worldwide.</p> <ul style="list-style-type: none">• Scientific excellence and objectivity are the cornerstones of all our work.• We value collaboration and communication among all our stakeholders.• We strive for diversity and inclusiveness in all forms.• We respect each other and the Union.• We uphold the highest standards of transparent, responsible and ethical behavior. <p>GOALS (short term and long term)</p> <p>Provide scientific expertise to address critical world needs. Increase the value of our products and services. Improve the vitality, effectiveness and efficiency of our Union.</p> <p>OBJECTIVES (short term – substantial progress in coming biennium)</p> <p>Brand IUPAC in the minds of stakeholders Improve quality and frequency of communication with stakeholders Increase revenues and improve long-term financial stability Expand and retain Member and volunteer base with an emphasis on diversity and inclusion. Enhance interdivisional interaction and collaboration Emphasize multidisciplinary projects addressing critical global issues Support chemistry education, particularly in developing countries</p>
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PRESENTATION ON NEW IUPAC WEBSITE

Lynn Soby, Executive Director of IUPAC, shared the updated website which will be available after 1/1/2016. She has worked with Bonnie Lawler, Fabienne Meyers, and others, and THEE Design for these improvements. Focus on backend needs, user needs, costs, task group key issues. First issue was to stabilize the existing site, then to work on improvements. A survey was conducted to get input on what was needed (functionality, capability, etc). This works on smart phones (IOS and Android) as well.

Soby reviewed the new home page which includes contacts, forum, join, login. There will be password protected credentials for all members to use; this provides authentication for access to different areas (projects, committees, etc). Also large buttons for NAO, ANAO, Associated organizations, Company Associates, Individual members.

Front page has space for scrolling interface – provides news, updates, features. COCI should consider when we want to post something on that interface (and we could load that ourselves). We'll be able to pull out of our content what we want to feature on the front scrolling page. Fresh and current information is critical to success of this page!

As Exec Director, she receives a lot of questions about IUPAC from students; she has started directing them to the NAO for more insights. Need to build stronger relationship with the NAOs; the front page now as a button to see if your country is a member, and to reach NAOs. Individuals are members through the Affiliate membership program, and this is now raised to the front-page level to access. Aligned with these website changes are some changes in other work processes to streamline work for the 5 staff members to manage. Company Associates has a button on the home page, should allow us to link better with them.

Bottom of home page has the fields of chemistry so visitors can learn more about different disciplines. (similar to the Division alignment, but that is an internal alignment). Divisions will be asked to suggest the logos.

Questions: can we find industrial members (or do we have to recognize the institution names)? Not yet, but understand interests. Can we extract the information (not yet, need to consider the security/confidentiality information)? IUPAC doesn't have a privacy policy yet. The IUPAC database would have to be restructured and set up as two-way database. When people register at this site, can they indicate what information is public and which cannot be shared? IUPAC will have to decide what the rules and policies are, limitations and concerns, and let people know when they fill out the registration form. Who will have access to database? Probably only the members, based on log-in credentials and authentication.

Individuals can build their own page, can add their own favourites, dashboard, etc. There will be a news feed for recent as well as archived items. There will be a tab for resources and publications. Events will be posted on a calendar – conferences, etc. with links to the event websites. There will be a project page. There is opportunity for the team to post their timeline, information on progress, objectives, description, etc. This will be very helpful for the project members, too, since sharing documents and files through a collaboration space, is now available.

Will it be possible on front page to indicate stakeholders (industry, education, etc)? That seems to be becoming more apparent, will need to name properly.

III. PLANS FOR COCI MEETINGS IN 2016-2017 BIENNIUM [BW, CR]

6. Objective: Discuss and agree on meeting times and places within resource available.

Planned/ Possible meetings

- Handover Meeting out-going and incoming Chair and Secretary December 2015: recommend that we have a biennium wrap-up virtual meeting in December.
- Do we need a TM planning meeting? Could be at the time of the Bureau meeting in Montreal in April 8-10, 2016 at McGill University. We did this in Coimbra in 2014 and it helped us organize our

biennium. This does involve travel costs out of our budget; we could also have a project meeting related to that and we could use the project money for associated travel. Some members may need a visa – this can take time to arrange; will need a letter of invitation.

- COCI AGM 2016, could be in Beijing in September 2016 at the time of the IMRET14, ThalesNano prize will be awarded at the IMRET meeting. Regional Workshop Meeting, Last full workshop was in Toronto for Great Lakes area. We need to discuss as part of the COCI AGM, may be Beijing or elsewhere but will need volunteers and the raising of financial support. Mr. Xie of Sinopec is prepared to help with organizing the regional workshop, COCI meeting, letter of invitation, etc. Topic can be chosen by the organizers that would be of interest to the chemistry community in that region. Mr. Cheng will also provide assistance to organize this.
- Next GA including COCI Annual Meeting and Safety Training Program Workshop in Sao Paulo, Brazil in 2017. Project will be proposed for the STP Workshop, input will be asked for to update the agenda for the STP/Responsible Care activity. We need a team to take on ownership of STP; West has been leading this in the past. Grover and Babalola would be willing to do this.
- WCLM COCI Advisory role. Do we want to commit COCI to assisting with the WCLM in Sao Paulo? We have taken the lead in the past; this time we provided some consultation but event lead by Division IV and CCE with strong engagement of Young Observers. At this point, we will agree to consult but not take the lead. COCI members that have a specific interest in this should contact West.

PROJECT FROM DIVISION 6: HAMDA GARELICK

The Environmental Chemistry division will create a project on Fracking. They are looking for an appropriate angle where IUPAC could collaborate and make a useful contribution. Is there anyone from COCI that would be interested in helping shape the project or joining this task group? There might be some contacts who are considering a potential Canadian symposium on this (Roland Andersson). West may have a contact as well.

PROJECTS / ACTIVITIES. All for Information and Input]

7. Health, Safety and Environment Program

- **Safety Training Program and links with CRDF/CSP.**
- **Responsible Care Book by IUPAC**

The STP workshop on Monday will feature 3 speakers on importance of EH&S programs and several STP Fellows who will describe the work they have done in their home country. The afternoon is a working session to discuss how to improve our efforts. A low estimate is that 20,000 people have been impacted by the improvements made by the Fellows over the years. The biggest gap in the program is finding host companies to host the trainees. COCI members are asked to consider if they can help build connections for identifying hosts. CRDF is able to cover expenses for some countries; we will try and renew this agreement. Otherwise, IUPAC would pay for travel, host company will be asked to cover local expenses.

Responsible Care book: need to continue to advertise this. Suggestion from Baekelmans: contact CPetry@Essencia.be to ask if they can share the info on the book with the major chemical producers in Belgium. Also try and share it with small and medium companies through trade associations. Ribes will send the flyer to everyone to help distribute.

West would like to have a workshop on the content of the RC book. Is there a way to work this into an existing meeting or with a university? Responsible Care is an ethical code of practice for the chemical industry; started in Canada in 1986. Workshop was a 4 hour session with 1 case study contaminated cough syrup (complicated supply chain). Makarova shared some positive results from Russia Responsible Care for safety and emergency response.

8. IUPAC ThalesNano Prize [BW & JF]

Participants are encouraged to solicit nominations for the award. Nominations will be open until 31 January 2016, Jury of past winners and other prominent Flow Chemistry practitioners will select the winner and the Prize of \$US7000 will be awarded at the IMRET14 meeting in Beijing September 2016. The award has been granted twice with very distinguished recipients; it would benefit from a larger nomination pool.

9. World Chemistry Leadership Meeting [BW]

This is organized by CCE and Division VI and focuses on the Millennial Development Goals. The Young Observers will prepare their perspective on how they would like IUPAC to focus. Includes keynote speakers and presentation by N. Tarasova, IUPAC Vice President.

ACTIVITIES WHERE SUPPORT WILL BE GIVEN AS RESOURCES PERMIT.

10. NGO/IGO/Trade Associations Program [?]

We still need a volunteer(s) to lead this

11. Life Cycle Analysis [BW]

Needs a leader with time. Important but complex and possible link with CHEMRAWN

12. Public Appreciation of Chemistry Program [?]

Need a volunteer to work the links with CCE

14.00 -1600 COMMITTEE WORKS ALONG WITH THE PROJECT TEAM TO WORK TO ADVANCE THE TWO KEY PROJECTS.

13. Company Associates Project [BH]

Ribes reviewed the results from the CA survey and plans for the next step. Information was shared prior to meeting. Next phase, outline some scenarios for how to structure the CA program based on different elements. Large companies may appreciate resources for outreach: ideas, kits, things to share for STEM

education. We can offer something different to smaller companies that might help them with their company. Could offer different membership levels. If you do these three things (CA member, achievements, RC), you could be eligible for the award. Would this limit the perception of independence of IUPAC? Engagement with IUPAC offers opportunity to engage industrial scientists with projects external to the company, which is often a key career development requirement.

Can we use an award as a friendly competition between companies to get them engaged? If we share examples from 3-4 companies of ways to engage with IUPAC, will that encourage the others to do something similar. Is there something we could do to have tax credits to companies that donate to IUPAC so they save money on the taxes they pay in each country? (What would we know about tax laws to do that?)

Would we want to allow use of IUPAC logo under certain conditions without losing our independence.

14. SAICM. [AM]

Lead by Anna Makarova, COCI is developing information about IUPAC's current activities, which are consistent with the SAICM themes and objectives. Once this work has been completed we will develop and Project, which should be multi Division/Committee supported, to define a suitable role for IUPAC and work with SAICM to arrange for the necessary linkages and joint activities. Anna will take a draft proposal to the SAICM meeting in the autumn of 2015 (Sept 28-Oct 2). ICCM: International Conference Chemical Management. SAICM created by United Nations Environmental Program (UNEP). www.saicm.org there is a book that describes the texts and resolutions on ICCM. The Dubai Declaration on Chemicals Management came from 158 countries; includes over-arching policy strategy and global plan of action. 5 objectives: risk reduction, knowledge and information; governance; capacity building and technical cooperation; illegal international trade. Makarova suggests several good links with IUPAC: Risk reduction includes best available techniques and best environmental practices (BAT/BEP) would be possible IUPAC targets. Knowledge information: exchange technical information between sectors. Risk reduction: risk assessment of pesticides: div 7 subcom on toxicology and risk assessment; Knowledge and information: STP of COCI.

ICCM is collecting submission papers on specific topics. Marakova will create this for IUPAC, reports on activities in framework of SAICM. She already has a draft. First part is strategic plan, vision, mission, history, long range goals. Second part of IUPAC activities related to chemical management; existing, pending and future project examples. Emphasize projects in the framework of SAICM; she has reviewed all the IUPAC projects to identify the alignment. Potential for illegal international traffic – IUPAC has organized symposia with OPCW to collect information from scientists.

Needs input for conclusion: what IUPAC wants, what IUPAC can do, what IUPAC needs.

Submission paper to be finalized and delivered at the ICCM4 meeting and discuss with other stakeholders.

Preparation of IUPAC recommendation for further activity in the framework of SAICM.

Needs specific input from IUPAC units on what to include in this scope. Division VI and VII should be good sources of information on this. Humphris will speak to CEFIC Secretary-General about any

suggestions since this is a big area for ICCA. We do need to be aware of political issues as well as scientific issues and approaches in this space. West can reemphasize this at the Bureau meeting and at Council. We can also circulate the draft for more input (assume silence is consent). Our efforts are probably accuracy, objectivity, terminology, and measurements which can be helpful in this area, are scientific, and utilize IUPAC strength. We can discuss a way to enhance our network, its efficiency and output, with some additional funding. If you want to track what SAICM is doing, you can spend 40 hours a week tracking this; we don't have the resources to watch everything they do. We could propose that if SAICM Secretariat has areas of concern and want to consult, that we can serve as consultants. Marakova/West/Humphris circulate this after the GA meeting.

Humphris: can we request funding for NGO to participate in the meeting or it is too late? Or do we need for IUPAC project to fund this. IUPAC can ask UNEP for \$ but need to work on the request. Once we are fully engaged, some of the NAO may want to contribute to contents of activity. Humphris may be able to provide some input from RSC or other NAO.

Roundtable:

We don't provide much pre-meeting information to non-members and new members. Do they have a challenge keeping up with everything?

Enjoyed the CA projects.

Meeting was well prepared with

Good to have the list of divisions and acronyms available for everyone to see.

Will Ribes send out the minutes? Yes, and she welcomes corrections and additions.

Participant prefers that COCI contact the NAO to learn how they want to work with CA rather than have IUPAC drive it. Allows for local culture and better engagement at the national level – especially for the small and medium companies.

Overall, good meeting, thanks for trying to help YO and new people understand the discussion.

16:00 MEETING SUMMARY, ACTION PLAN and ASSIGMENTS

Monday 18:30, dinner at Haeundae Centrum hotel, sponsored by Huawei Total. COCI appreciates that Dr. Chang-Hyun Choi arranged this.

Action items:

1. Carolyn to send updated roster contact info to Secretariat – end Sept.
2. Carolyn to send updated 2016-2017 roster to Secretariat – end Sept.
3. Prepare articles for Chemistry International: Company Associates project (Ribes), STP (West), - October 1.
4. Ribes will schedule a GoToMeeting to wrap up the year in December (by November 1).
5. West – start planning the TM meeting in April in Montreal (contact the Bureau meeting organizers, work on visas, esp for Marakova) by end September. Ribes will work with Shan and Montreal Bureau meeting organizers to request room space, etc.
6. West to work with Mr. Xie and Mr. Cheng of Sinopec to organize a regional meeting in China to take place in Sept 2016.
7. West (Grover, Babalola, ?) to create a project for STP for the Brazil GA/WCC in 2017.

8. Ribes to send flyer on RC book to everyone and ask them to send it out to their contacts in academia and industry.
9. Volunteers for: creating any project, joining CA project, working with SAICM; STP team, by Sept 30 to West.
10. Ribes to get info on IUPAC-OPCW engagement for SAICM project
11. Assist Marakova with completing the SAICM submission: West, input from Humphris, Ribes to help review.
12. Ribes will send Shan the CA summary, options, etc.