Iran Oil Industry Young Professionals & National Committee

PRESENTS...

WPC EXPERT WORKSHOP on
SUSTAINABLE STRATEGIES for
HSE in the OIL, GAS and
PETROCHEMICAL INDUSTRY

Place: Tehran, Iran
Date: 29-30 April 2019
PART 1 – PLANNING & LOGISTICS

As a part of the 2017-2020 WPC cycle schedule, among the 8 planned expert workshops, Iran Oil Industry Young Professionals Committee in WPC (IOI WPC YPC) in collaboration with the National Committee, managed to conduct the first event of the series in Tehran entitled “Sustainable Strategies for HSE in the Oil, Gas and Petrochemical Industry”.

This program has also been a pioneer step-forward since it was the first ever official calendar of WPC hosted by Iran since the Iran National Committee (INC) was established.

During this report some specifications are going to be depicted and if there need to be more clarification you can be in-touched with:

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A) PLANNING OUTLINE – ORGANISATION OF THE EVENT (WHO/HOW)

Organizers:

From the moment of the host countries announcement, many meetings and negotiations were held in order to reach into the highest levels of collaboration in both interior and exterior sections for the mentioned expert workshop. The main core of the coordination was Iran NC which showed the support in different aspects expressed later where the YPC was focussed on executing the settlements.
Primarily the title of this expert workshop was decided to be “HSE Cost to Benefit Analysis” but then broadened to various pillars so became an element of the contents and the head-title changed into “Sustainable Strategies for HSE in the Oil, Gas and Petrochemical Industry”.

The main organizing board in charge of the coordination processes were Iran Young Professionals Committee members, as the main executive role, Iran National Committee, as the moderator of arrangements and the Organizer team joined to the IOI WPC YPC activities since March 2019 due to an MOU.

Ministry of Petroleum as the most known base of activities related to petroleum industry also join the organizations. Regarding to that, the chief directors of HSE board and the ministerial chairs had been negotiated with to encourage wider scale of participations where “International affairs and Commerce deputy” showed a commanding support. Although, there were some obstacles to have the whole potential hired due to particular objectives for the case of emergency appeared near the workshop due to the water-flood as the social responsibilities of the operational units that restricted the contribution. To be noticed, INC had cooperative efforts over the invitations.

Moreover, during the organizations, the international collaboration was decided to have embassies involved which proceeded after permanent follow-up with Iranian Ministry of Foreign Affairs and resulted into the distinguished embassies of Russia, Azerbaijan and India attendance.

Other NCs:

As illustrated then, the programming and executive aspects were mostly handled interiorly, but Russian YC is appreciated because of introducing some of the speakers in addition to other international collaborations attained which led into 12 different countries contribution. However, they did not make it to participate in person but that can be still highlighted as a productive performance considering the closeness and overlaps to other WPC or domestic calendars at the same time like 6th Future Leaders Forum in Saint Petersburg.

Sponsorship:

In complementary to the previous part, some partner companies of Iran YPC network did affords in favour of engaging their excellence in cooperation. INC also associated to involve well-known E&P and holding companies of petroleum industry in this program. These corporations are introduced whether as partners or sponsors presented below:
The **partnership** could have been in the line of:
- Introducing speakers (confirmed after qualification and coordination)
- Giving nonfinancial supports (workplace, …)
- Spreading the workshop notifications
- Correspondence to sub-branches for contribution

While the **sponsorship planning** was implemented in two ways of:
- Delegate nomination (by paying registration fee)

**Communication Strategies:**

In communicating other organization, the **focal point program** of the Iran YPC was a key to accelerate the process beside other **direct negotiations** like meetings, sending invitation letters and correspondence described before.

Furthermore, a **specific workgroup** was chosen to do the follow-ups as a branch of executive team of the workshop that will be delineated later.
Format and the length of Workshop:

HSE workshop was undertook at main ceremony hall of Parsian Evin Hotel in Tehran on 29 and 30th of April 2019, just before the 24th Iran oil, gas, refinery and petrochemical annual exhibition (Iran oil show). Note that the event schedule was planned in 3 days of activities launched from the earlier day to the workshop by Research Institute of Petroleum Industry (RIPI) technical tour for attended foreign guests and welcome reception simultaneously with gala dinner. Another visit managed for the foreign participants was 24th Iran Oil Show, the biggest petroleum industry relevant event of the year, right the day after workshop.

On the panel days, the format of the hall was designed in conference mode to cover the number of participations and guests and make the presentation and Q&A discussion programs more dynamic to be able to have effective mutual communication with panellists.
B) LESSONS LEARNED FROM THE PROCESS OF ORGANISING THE WORKSHOP

The workspace of preparation tasks was at the 23rd Iranian WPC YPC secretariat at Iran Petroleum Institute where these tasks were dedicated to people categorized in workgroups and in this section of report the summary of the lessons gained or the challenges faced are to be expressed.

Noticeable challenges to face during the organizations were mostly not usual restrictions and cased problems. For instance, some complexities because of the intent flood occurrence near operational sites that imposed hardships to send delegates and also national new-year holidays was the other one on the way of advertisement and communicating to organizations.

The other limitation was actually for international attendance because of the calendars before and after the expert workshop which treated by proposing the tele-conference mode that worked out fairly well but making sure of good connection whilst the presentation can be introduced as an important consideration. Also some international situations were experienced during the foreign attendance coordination which was covered as described above. To avoid such problems, it was suggested to speakers to record a sample of their speech which was also a good way for the speakers that had limitations on the time the panels were to be.

Apart from that, the idea of putting the workshop right before the Iran oil show was a solution to dilute these problems for some of the invited foreign attendants and much more productive for domestic companies’ delegates.

Supervising the entrance and departure of the guests handled by applying barcode codes to cards segmented in different types for speakers, executive team and, etc., controlled using barcode reader devices.

Another aspect to remind is coordination sessions between moderators and Programming Committee (PC) and moderators with the speaker of their panel to set the details.

In order to make sure of continuous inter-connection between teams on the workshop days there were specific responsible persons appointed to have it checked using talky-walky systems.
PART 2 – CONTENT & OUTCOMES

C) WORKSHOP OVERVIEW

The “Sustainable Strategies for HSE in the Oil, Gas & Petrochemical Industry” expert workshop organized in Iran with 155 participants (52 panellists) with a dozen different nationalities.

On the panels there were 10 different streams hold (as 7 panels) to review and debate major HSE related issues under the title of the pillars of the workshop that were:

- HSE Sustainable Strategies in Upstream & Downstream Petroleum Industry
- HSE Sustainable Development in Oil & Gas Fields, Refineries & Petrochemicals Plants: Regional Case Studies
- Digitalization, Technology & Future of HSE
- Innovative solutions for a Sustainable future
- Cost Benefit Analysis in HSE

Strong contribution from the Iran YP committee (21 people), representing most active organizers, workshop moderators and international mobilization to increase YPs contribution as an aim of this event but considering the involvement of senior professionals to raise sharing experience feature.

The information about panels and topics are declared taking account for each day:

<table>
<thead>
<tr>
<th>Stream/Panel Title</th>
<th>YP Speakers/YP Moderators</th>
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<tbody>
<tr>
<td><strong>Plenary:</strong> HSE Sustainable Strategies in Upstream &amp; Downstream Petroleum Industry</td>
<td><strong>Speakers:</strong> Mr. Anar Javadov Ms. Kseniya Bondarenko</td>
</tr>
<tr>
<td><strong>Upstream:</strong> Session 1; HSE &amp; Sustainable Development of Oil &amp; Gas Fields: Best Practices</td>
<td><strong>Speaker:</strong> Ms. Joanna Desjardins <strong>Moderator:</strong> Mrs. Fatemeh Famouri</td>
</tr>
<tr>
<td><strong>Upstream:</strong> Session 2; Sustainability vs. Environmental Impact in Oil &amp; Gas Fields Development: Best Practices</td>
<td><strong>Speaker:</strong> Ms. Maria Morgunova <strong>Moderator:</strong> Mr. Hamed Z. Qadim</td>
</tr>
<tr>
<td><strong>Stream 1:</strong> Sustainability &amp; Environment</td>
<td><strong>Speaker:</strong> Ms. Joanna Desjardins <strong>Moderator:</strong> Mr. Hamed Z. Qadim</td>
</tr>
<tr>
<td><strong>Stream 2:</strong> Leadership Perspective &amp; Sustainability Workshop</td>
<td><strong>Moderator:</strong> Mr. Hamed Z. Qadim</td>
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- The main concentration on first day was dedicated to upstream section that 6 YPs were engaged in the programs as 7 roles (4 speakers and 3 moderators) in 4 stream sessions (3panels).
**Second Day:**

<table>
<thead>
<tr>
<th>Stream/Panel Title</th>
<th>YP Speakers/YP Moderators</th>
</tr>
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</table>
| **Breakout Panel:** Innovative Solutions for a Sustainable Future | **Stream 1:** Technology, Digitalization & Future of HSE  
**Speaker:** Ms. Maria Morgunova  
**Moderator:** Mr. Ali Rahneshin  
**Stream 2:** Increasing Safety & Environmental Protection: Best Practices  
**Speakers:** Mr. M. Reza Rostami, Mr. Hamed Z. Qadim, Ms. Kseniya Bondarenko  
**Moderator:** Mr. Ali Rahneshin |
| **Expert Panel:** HSE & Sustainable Development in Refineries & Petrochemical Plants: Regional Best Practices | **Speaker:** Mr. Amin Avazpour  
**Moderator:** Mahsima Madhoosh |
| **Break Out Panel: Downstream Sustainable Future: Persian Gulf Petrochemical Industries Co.: Best Practices** | **Stream 1:** Cost-Benefit Analysis in HSE  
**Moderator:** Mr. M. Reza Rostami  
**Stream 2:** Environmental Assessment & Sustainability  
**Moderator:** Mr. M. Reza Rostami |
| **Interactive Closing Panel:** “Young Leaders Perspective” | **Speakers:** Mr. Stephane Rousselet, Ms. Assem Mukazhanova, Ms. Anna Illarionova, Mr. Soleyman Coskun, Ms. Seyedeh Maryam Mousavi, Ms. Kimia Pourabdollah, Mr. Mohammad Javad Azad, Mr. Morteza Yasoubi, Mr. Ali Rahneshin  
**Moderator:** Ms. Golnoosh Abdeali |
| **Conclusion and Closing Ceremony** | **Speaker:** Ms. Lesana Kurbonsoheova |

- On this day 17 Young Professionals from different countries took part in the programs within 21 roles participating in 6 streams (4 panels). Also on this day, innovative approaches and downstream section were discussed.

(These tables were only showing YPs contribution in the case of distinct review so that the others are senior experts; the complete explanation is in attached brochure)
D) KEY DISCUSSIONS AND OUTCOMES

In this workshop we tried to imply all different sections of petroleum industry from upstream to downstream, ministerial directors, universities and academic researcher and politician officers and ambassadors. The strategies that are going to be described in the following are starting with the preparation process and then comes through the time to the workshop days and conclusion of the achievements.

Strategies derived before the event was conducted by separated but cooperating working groups formed from YPC members entitled:

- **Program Committee:** The main supervision on event schedule and in charge of international allocations, organizing the speakers and making sure of appropriate coverage to give a comprehensive range of subjects, viewpoints and experiences. Also define the structure to appoint the objectives and inter-relations.

- **Foreign guests:** This team works right under the supervision of the Program Committee and is in charge of every coordination regarding to foreign attendants.

- **Organizing Team:** Major coordination with hotels for accommodation and workshop hall, airport transport for foreign guests, cultural programs, software maintenance, hall furnishing, …

- **Executive Team:** This team was a combination of some other different sub-teams aiming to administer all executive parts of the tasks demonstrated as:
  - **Sponsorship Team:** In charge of negotiating with candidate organizations for sponsorship based on the pattern explained before.
  - **Secretariat Team:** In charge of correspondence and managing interior coordination at workplace and cooperating with follow-up team and providing documents required for other teams like brochure, … . after workshop this team is responsible to do next follow-ups and maintaining the workshop reports.
  - **Follow-Up Team:** In charge of following up the correspondence in cooperation with Secretariat team to negotiate with organizations (If a chance of sponsorship found it would be sent to Sponsorship team). The main sight of this workgroup was to introduce the expert workshop and assure about the delegates attendance.
  - **Registration Team:** In charge of both handling the sign-up process and answering to the attendants for registration in addition to managing reception on the panel days. Also the delegates presence was the responsibility of this team which attained by barcodes recording.
  - **Designer Team:** In charge of designing the website, posters, certificates, and also handling the control room in expert workshop managing the presentations, conference calls, …
  - **Advertisement:** In charge of spreading the expert workshop event on Iran YPC paths on social media and settlement of ads on other exterior possible channels. The
Regarding to the workshop schedule, one day before the panel days a welcome reception program was held to share brief review notes on the workshop (since many introductory meetings had been managed with speakers and moderators before) and presenting the WPC more comprehensive and speaking of future calendars in which some head chiefs and directors were invited plus the panellists and primary registration accomplished. After that a simulation program was run or the executive on the panel days. (There were 3 group simulation programs in aggregation and many of coordination and hardware placement simulations at location were conducted)

On the first panel day on 29th April, there were an opening ceremony at the beginning where WPC director, Mr. Pierce Riemer, Iran NC chair and International affairs and Ministry of Petroleum gave their speeches. This program had a massive number of participation even more than the registered delegates since some directors were invited as honoured guest to opening ceremony.

Right after that, the first panel started after the presenter introduction of the panel and conferment the tribune to the moderator. The same approach continued based on the brochure panel tables proposed.
11:00 - 12:30  
Session 1: HSE & Sustainable Development of Oil & Gas Fields: Best Practices

Keynote Speaker:
Dr. Farnoosh Nazari, Founder and CEO of prnExco Engineering Consultancy Co., "Operational Excellence for Sustainability and Sustainable HSE", Iran.

Speakers:
Mr. Mohammad Reza Nejati, South Zagros Oil and Gas Production Co. Environmental Dept., "Decreasing Environmental Impact in Upstream: Best Practices", Iran.
Mr. Rasool Tavakoli, HSE Manager at Dana Energy, "Inherent Safety in organizations and HSE sustainability", Iran.
Ms. Joanna Desjardins, WPC Vice President Diversity, Inclusion and Youth, Sr. Specialist, Business & Corporate Development, P. Eng., Cenovus Energy, "Regional Best Practices", Canada. (Sitee Conference)

Moderator:
Ms. Fatemeh Fathomi, Persian Gulf University, Iran.

12:30 - 13:30  
Lunch Break

13:30 - 15:30  
Session 2: Sustainability vs. Environmental Impact in Oil & Gas Fields Development - Best Practices

Stream 1: Sustainability & Environment

Speakers:
Dr. Marie Morgenova, RIT Royal Institute of Technology (Sweden), Researcher Joint Institute for High Temperatures of RAS, "Energy Industry Through the Prism of Change: Transformation & Sustainability", Russia. (Sitee Conference)
Dr. Fereishteh Jaderi, Department of Environment, Sustainable Development & Environmental Economic Dept., "Sustainable Development Modeling of Oil and Petrochemical Industries in Southwest Coast of Iran Based on HSE, Social & Economic Indicators", Iran.
Dr. Ali Ahmad, Petroleum University of Technology, "The status of HSE in Sustainable Development Management System: A look on Oil Companies", Iran.
Dr. Seyed Soad Zarei Puri, PEDEC, "Sustainability vs. Environmental Impact in Oil & Gas Fields Development: Role of Engineering Design", Iran.

Moderator:

15:30 - 16:00  
Networking
At the end of each day there were a networking session settled for the participants.

On second day, when the final stream finished, **closing ceremony** was held and Iran NC secretariat had the concluding speech to summarize the endeavours and asking attendants to share their report of applying presented contents on the expert workshop. On the closing ceremony Iran NC Secretariat, Dr. Mohammad Ali Emadi and Ms. Lesana Kurbonshoeva, Official Representative of Russia in WPC Young Professionals Committee, had their speeches.
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<td>Speakers:</td>
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<td></td>
<td>Dr. Bahman Abdolhamidabadi, Center for Process Design, Safety and Loss Prevention (CPDL), Sharif University of Technology, “University &amp; Industry Collaboration for Achieving Sustainable Development Goals”, Iran.</td>
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<td>Mr. Masoumeh Ahang, HSE Lead at Oil Design &amp; Construction Company, “PSSER: POC 15/16/12/15/19 Phases Best Practices”, Iran.</td>
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<td></td>
<td>Mr. Amin Avespouy, Delan Gas Field Production Operation Superintendent, Iranian Central Oil Field Co., “Commitment to CSR &amp; Reducing Environmental Pollution by Implementing FGRS in Parsabad Gas Refinery: Best Practices”, Iran.</td>
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<td></td>
<td>Moderator:</td>
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<td></td>
<td>Ms. Mahshid Mohammady, Young Professionals Committee Member, Iran.</td>
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<tr>
<td>12:30 - 13:30</td>
<td>Lunch Break</td>
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**Stream 1: Cost-Benefit Analysis in HSE**

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<tr>
<td></td>
<td>Speakers:</td>
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<td></td>
<td>Mr. Mahmoud Sharifi, Pars Petrochemical Company HSE Manager, “CBA Best Practices”, Iran.</td>
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<td></td>
<td>Mr. Mostafa Mohammadi, Pars Petrochemical Company HSE Dept., “CBA Best Practices”, Iran.</td>
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</table>
The “Young Leaders Perspective” panel devoted to the Young Professionals from different countries was the last panel of this day (left picture below).
## Problems and challenges decided:

- New developments with risen necessity of more effective sustainability and HSE Solutions due to challenges came out of the industry propagation
- Engineering capacity in providing sustainable development and resolving HSE issues
- Reduce environmental impact and the long-term consequences
- Challenges in establishment of HSE management system in holding companies
- Balancing the energy trilemma (security, equity, environmental sustainability) to check interdependent concerns simultaneously in management
- The commitment of companies and organizations to Sustainable development
- Pre-start up safety review (PSSR)
- Stakeholders and shareholders view and their role in the line of sustainability
- CSR consideration among the sustainability proceedings implementation
- Quality evaluation and quantitative indices for further decision makings
- Business strategies and practices for sustainability in HSE

## Solutions proposed:

- Demonstrating the real value of HSE in various points of view (non-financial aspects, human resources, environmental pollution side-effects, long term return of the investments, …) concentrating on the initiative approaches with successful results
- The advantage of the usual and alternative approaches for newly faced industrial problems
- Systematic design and implementation of HSE management as an important enabler of performance
- Introducing gas recovery/zero flaring methods to decrease the environment impacts and recover saleable hydrocarbons
- Vetiver applications within green SCM integrates environmental to decrease contamination
- Proper monitoring with minimal interference in the operation of subsidiaries for holding companies in staged method
- Creating integrated SD model in oil and petrochemical industries
- Decide mathematical model of calculation (Neural network or other intelligent method like genetic algorithm, reward and penalty scoring method, …)
- Involving new technologies and renewable energies in different sections of the oil exploitation and EOR such as solar power, wind farms, …
- CSR and Reducing Environmental pollution by implementing FGRS
- Sharing experiences through the numerous case studies presented via panels for benchmark in execution parts
- Reuse and recycling management of water and effluent resources
- CO2 capture and sequestration (CCS) in fossil fuels-driven economy
Young Professional members were included in all streams as both speakers and moderators in addition to one devoted “Young Leaders Perspective” panel.

» Diversity in the expert workshop was remarkable; disparate viewpoints from different sections of industry and advertising academic knowledge by inviting university nominates including 9 student grants.

» Professional industrial experts from prominent stakeholders and companies presented their statements on panels along with young professionals to have the efficiency of new science and technology and practical experiences in combination.

» International partnership was remarkable and running Skype conference mode as an initiative proceeding to evolve this rate resulted 7 Young Professional speakers from other WPC member countries.

» Ministerial affords and NC support made promotions in communicating other organizations.

» Iran YP committee in corporation with Iran NC, invited Iranian Ministry of Petroleum sections to participate leading into the international affairs and commerce deputy of minister attendance to the program as keynote speaker on opening ceremony, where his assistant and some expert officers accompanied him.

» Moreover, international and commerce deputy office correspondence with embassies of different countries entailed to 3 delegates participation from Russia, Azerbaijan and India.

» Iranian National Committee (NC) nominated the chair and secretariat of the committee giving speech on opening and closing ceremony respectively.

» The final contribution number of young professionals was recorded 28 roles fulfilled by the 20 previously mentioned delegates in the streams.

» Also, besides that, the event executive team was merely consisted of Iran YP Committee with 21 members.

» Exclusive news coverage for consisted of the official Iranian Oil and Gas News Network (Shana) and the only non-advocacy expert petroleum media in Iran, Petroleum TV.

**Statistical review:**

Here is some visualization and statistical review of how the YPs contributed to the Expert Workshop:

In this part the statistical results express the contribution detail of attendant to the expert workshop. Primarily the general participation is considered and then YP partitioning is displayed. After that, panellists, consisted of moderators and speakers, will be indicated to demonstrate the manner of these panellists involved in the technical sessions and arriving at YP specific overview. The last developed graphs are showing the YPs inclusion procedure with more concentration.

(In all the assessments both genders and YP to senior contribution has been designated)
155 total attendance registered that more than 70% of the audience were industrial expert delegates that a quarter portion of this participation were women which is noticeable engaged in Q&A discussions at the end of panels.

Among the 155 attendance, 45 were YP delegates with almost the same contribution rate for genders.
Delegates participations in gender analysis reflects a major lead in senior attendance for male audiences of 82% out of 107 and the opposite results for women by 88% of YP attendance out of 25.

This rate of genders contribution as panellists has smoother trend with a quarter portion for women in members and the same quantity considering the participating roles with 27% contribution.
Panellists were observed to be fairly distributed among seniors and YPs with a relatively advantage for more experienced speakers to be 32 and 20 accordingly.

Those 20 YP panellists are categorized in the same gender contribution rate with even an advantage in number for women tough the same thing is in participation for male panellists.
There has been no specification for panellists, whether the statistics is for speakers or moderators reviewed up here.

The exceptional thing is that 4 YP panellists has been appointed in average for each stream (approximately 3 speakers and 1 moderator).

Regarding to this stats, there has been a reasonable sharing of the speakers as young professionals take the roles, and senior experts from different field of occupation and even nationalities for sharing their experience.

The YPs contribution ratio among the panellists tends to show the same 28% in both number and participation analysis that highlights the experience sharing concentration from senior professionals.

Considering 10 roles as moderator there has been 49 total presentations regarding to 59 recorded participations.
Achievements:

- First ever student grant program in IOI WPC YP programs. (9 students including 3 speakers in “Young Leaders Perspective” panel) 
  (Student grant was a program to select talented students from academic institutes as honoured delegates to add both the young and academic society vision into the workshop.)

- Launching initiative tele-conference mode to increase global contribution

- Making an opportunity for different industrial experiences to be discussed and networking for benchmark

- Develop a massive growth in communications with ministerial and industrial organizations

- Proposing the challenge to make the workshop influences propagate over the holding days by supervising the reports coming after the workshop on practical effects coming out of the contents obtained and the operational sharing experiences discussed on panels.

- Remarkable involvement of gender distribution.

- Average 3 YPs contributions in each stream. (1 moderator and 2 speakers)

- Building up a constructive and comprehensive network among the Young and senior industrial professionals.

- Design a platform to have senior experts, young professionals and relevant fields students (as the future industrial professionals) to be gathered under the same title to evolve the range of diversity and build-up a dynamic phase of experience sharing.

- Making more opportunities to have mutual collaboration as a new scale of actions with Iran National committee, promising for further steps.

- Exclusive news coverage in medias: Shana (MOP official press) & Petroleum TV.

E) CONTACTS

For any more information here the contact details are given to be in-touched with Iran Young Committee to WPC and also find the workshop web-site on:

http://hseworkshop.worldpetroleum.ir/

F) SUPPORTING DOCUMENTS AND PRESENTATIONS

The brochure of the workshop including agenda, list of speakers, panels, etc., is attached in addition to useful links.

https://drive.google.com/open?id=1XKK4cUXq01rMqKZZ-KrpaVWctTjnYc9c
https://www.instagram.com/ioi_wpc_ypc/