Youth in Science, Technology and Innovation Indaba

“Creating opportunities for youth through science, technology and innovation
- Nothing about the youth, for the youth without the youth”

Date: 9 - 10 June 2017
Venue: CSIR International Convention Centre, Pretoria

Rationale

The National Youth Policy (NYP) for 2015–2020 (NYP 2020) was developed for all young people in South Africa, with a focus on redressing the wrongs of the past and addressing the specific challenges and immediate needs of the country’s youth. The NYP 2020 seeks to create an environment that enables the young people of South Africa to reach their potential.

Young people are a major human resource for development, often acting as key agents for social change, economic expansion and innovation. Their imagination, ideals, energy and vision are essential for the continuous development of society. The NYP 2020, in recognition of the vital role young people play in building South Africa, seeks to ensure that there are processes and opportunities that allow young people to develop and realise their potential.

In support of the vision and ambition of NYP 2020, key role players in the Science, Technology and Innovation sector will come together on 9 - 10 June at the inaugural Youth Indaba in Science and Innovation to reflect on the key challenges and opportunities for the STI sector and to help accelerate youth development through science, technology, and innovation.

Objectives

- What needs to be done to enhance the effective inclusion of youth across STI value chain?
- How can the power of STI be leveraged to enhance youth empowerment: This aspect is intended to also reflect on youth STI organisations mainly operating in the profit sector?
- Practical suggestions on how to strengthen STI support systems and render them more responsive and accessible to all youth, in line with the principles of the 2015-2020 National Youth Policy.
- Provide a platform for getting the inputs from a broad cross-section of youth for an action plan that will enhance the contribution of Science, Technology and Innovation to youth development.

To Attend

The Youth in Science, Technology and Innovation Indaba is targeting participation of youth entrepreneurs, youth enterprises, innovators and captains of industry responsible for innovation uptake and innovation enterprise support and development.

Outcome

Develop the Youth in Science, Technology and Innovation Declaration to improve youth participation in the knowledge based economy.
Day One: 9 June 2017

Programme Director: Mava Scott

07:30 - 08h30 Registration / Meet and Greet, Registration and meet like minded people, Visit the Exhibitions

<table>
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<tr>
<th>Time</th>
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<th>Activity</th>
<th>Facilitators</th>
<th>Speakers</th>
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<tbody>
<tr>
<td>08h00-09h00</td>
<td>Conference Venue (CSIR ICC Minister's Holding Room)</td>
<td>Ministerial Roundtable: Youth in STI entrepreneurship</td>
<td>MC</td>
<td>Invited delegates (South African Youth Chamber of Commerce: Thapelo Maleke); South African Youth Council: Thulani Tshefuta); and (SAB Foundation: Bridgit Evans)</td>
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<tr>
<td>09h00-09h15</td>
<td>Conference Venue (Diamond Room)</td>
<td>Official Welcome and Opening Remarks</td>
<td>MC</td>
<td>Director-General: Department of Science and Technology (Dr P Mjwara)</td>
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<tr>
<td>09h15-09h35</td>
<td>Conference Venue (Diamond Room)</td>
<td>Opening Address The role of youth in using innovation to create employment opportunities in the South African Context (TBC)</td>
<td>MC</td>
<td>Bavelile Hlongwa (NYDA Board)</td>
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<tr>
<td>09h35-09h55</td>
<td>Conference Venue (Diamond Room)</td>
<td>An African perspective on youth in STI</td>
<td>MC</td>
<td>Ms Mmampei Chaba, Chief Director: Multilateral Cooperation and Africa, Department of Science and Technology</td>
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<tr>
<td>10h00-10h30</td>
<td>Conference Venue (Diamond Room)</td>
<td>Keynote Address</td>
<td>MC</td>
<td>Honourable Minister: Department of Science and Technology (Ms Naledi Pandor)</td>
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<tr>
<td>10h30-10h45</td>
<td>Conference Venue (Diamond Room)</td>
<td>Reflections on the Opening Addresses - Discussion</td>
<td>MC</td>
<td>Led by Honourable Minister Pandor</td>
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<td>10h45-11h00</td>
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<td>Morning Break</td>
<td>All Delegates</td>
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**Parallel Sessions**

**Sub-theme 1:** Grassroots Innovation  
**Venue:** Exhibition hall  
**Facilitator:** Ashley Bhugwandin  
**Rapporteur:** Lindiwe Manqele

11h00 - 13h00

**Speaker 1:** Skhumbuzo Ndlovu: Reflecting on the journey toward commercialization of the CNC machine  
**Speaker 2:** Simphiwe Khuzwayo: Experience and perspective of a grassroots innovator from the DTI programme (Harlem Chemical Innovations)  
**Speaker 3:** Sarisa Verreira: Experience and perspective of a grassroots innovator (Areli Veg)  
**Speaker 4:** Sthembile Ndawndwe: Empowerment of youth through indigenous knowledge systems  
**Speaker 5:** Strengthening support for grassroots innovators, DST’s intervention (Ashley Bhugwandin, CSIR- TLIU)

Discussion and recommendations for the Youth in Science, Technology and Innovation Declaration – a Grassroot Innovator Perspective

**Sub-theme 2:** Enabling STI Policy  
**Venue:** Onyx  
**Facilitator:** Dr Karen Cloete  
**Rapporteur:** Ms Edith Shikumo

11h00 - 13h00

**Speaker 1:** Khathutshelo Ramukupaba, CEO of the National Youth Development Agency (NYDA) - How the National Youth Development Strategy supports youth innovation and entrepreneurship  
**Speaker 2:** Dr Nosiphiwe Ngqwala: Sustainable knowledge for science, technology and innovation (SAYAS)  
**Speaker 3:** Veli Mbele, Department of Science and Technology: Reflection of Youth in STI Policy (DST)  
**Speaker 4:** Dorothy Ngila: A question of gender in STI- exploring practical approaches (Organisation for Women in Science in the Developing World – SA National Chapter)  
**Speaker 5:** Dr Aldo Stroebel: Inclusion of youth across the national system of innovation- a policy guide (SAYAS)

Discussion and recommendations for the Youth in Science, Technology and Innovation Declaration – a Policy Perspective
### Youth in Science, Technology and Innovation Indaba

**Sub-theme 3:** Youth in Technology Businesses  
**Venue:** Amethys  
**Facilitator:** Bridgit Evans  
**Rapporteur:** Ephraim Phalafala

**11h00 - 13h00**

1. **Speaker 1:** Nneile Nkhosile: Experience of setting up a technology start up company for health product (iMed Technology)
2. **Speaker 2:** Dr Mthokozisi Sibanda: Ideas of how South Africa can leverage institutions of higher learning to encourage technology startups (African Applied Chemicals)
3. **Speaker 3:** Dr Mthuthuzeli Zamxaka, SAASTA: Youth business opportunities in Hydrogen Fuel Cells (CSIR)
4. **Speaker 4:** Lwazi Ndlela: Experiences and reflections from a mobile startup company (Flip Page Communications)
5. **Speaker 5:** Dr Keith Ferguson: Youth enterprise opportunities in Pan-African mobile TV broadcasting (Meraka Institute - CSIR)

Discussion and recommendations for the Youth in Science, Technology and Innovation Declaration - a Business and Innovation SMME perspective

**13h00 - 13h45**  
Lunch Break  
All Delegates

### Sub-theme 4: Youth in Research and Development

**Venue:** Emerald  
**Facilitator:** Henry Roman  
**Rapporteur:** Busi Ntuli

**13h45 - 15h45**

1. **Speaker 1:** Dave Powell: A perspective on youth Inclusion in R&D and benefits for the business (Toyota)
2. **Speaker 2:** Thulile Khanyile: Advancement of youth in R&D – an academia and research council perspective (WITS)
3. **Speaker 3:** Dr Sandile Ngcobo: Opportunities for the youth in scientific research and development (CSIR)
4. **Speaker 4:** Moses Mogatlane: Inclusion of youth in innovation and research to promote high value enterprise development (Transet Matlafatso Centre)

Discussion and recommendations for the Youth in Science, Technology and Innovation Declaration - a Research and Development Perspective from the private sector
### Sub-theme 5: Youth in STI Communication

**Venue:** Crystal

**Facilitator:** Michael Ellis

**Rapporteur:** Tiyani Ngoveni

**13h45 - 15h45**

**Speaker 1:** Michael Ellis, Perspectives and the experiences of the youth participation in science communication: a case of the IPRDP Youth Journalism Programme (SAASTA)

**Speaker 2:** Nanji Sheni: Science communication skills for early career researchers: a FameLab SA 2017 finalist perspective (Mintek)

**Speaker 3:** Pumeza Mabusela: Communicating scientific knowledge through a language of one's choice, a necessity (Rainbow News)

Discussion and recommendations for the Youth in Science, Technology and Innovation Declaration - a Communication, Awareness and Outreach Perspective

### Sub-theme 6: Responsive innovation support and funding instruments

**Venue:** Diamond/auditorium

**Facilitator:** Patrick Krappie

**Rapporteur:** Eric Watkinson

**13h45 - 15h45**

**Speaker 1:** Lisa van Eck: The South African entrepreneurship ecosystem map (ASPEN)

**Speaker 2:** Sandile Shabangu: Launching youth owned technology businesses (Startup Mzansi Foundation)

**Speaker 3:** Bridgit Evans: Support for Technology SMME's, the experience of the SAB Foundation (SAB Foundation)

**Speaker 4:** Marlon Parker: Innovation spaces as mechanisms for supporting youth employment (Rlabs)

Discussion and recommendations for the Youth in Science, Technology and Innovation Declaration - a Support Instrument and Financing Perspective
## Conference Programme:

**Day One: 9 June 2017**

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<tr>
<td>15h45-16h45</td>
<td>Conference Venue (Diamond Room)</td>
<td>Summary of the Day: Key points for consideration for the Youth in STI Declaration and Action Plan</td>
<td>MC</td>
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<tr>
<td>16h45-17h00</td>
<td>Conference Venue (Diamond Room)</td>
<td>Closure – Closing Remarks</td>
<td>Deputy Director-General: Socio-economic Innovation and Partnerships (Mr Imraan Patel)</td>
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<tr>
<td>17h30-20h00</td>
<td>Conference Venue</td>
<td>Networking Dinner for All Delegates</td>
<td>MC</td>
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**Day Two: 10 June 2017**

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<tr>
<td>09h00-09h20</td>
<td>Conference Venue</td>
<td>Introduction to Innovation</td>
<td>RIIS</td>
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<tr>
<td>09h20-09h40</td>
<td>Conference Venue</td>
<td>Pitching Fundamentals</td>
<td>RIIS</td>
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<tr>
<td>09h40-10:00</td>
<td>Conference Venue</td>
<td>Different types of pitches (VC pitch vs. Elevator pitch)</td>
<td>RIIS</td>
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<tr>
<td>10:00-10:20</td>
<td>Conference Venue</td>
<td>Linking your business model &amp; business plan into your pitch</td>
<td>RIIS</td>
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<tr>
<td>10:20-11:45</td>
<td>Conference Venue</td>
<td>Breakaway session: Application of Theory learnt</td>
<td>RIIS</td>
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<tr>
<td>11h45-12:00</td>
<td>Conference Venue</td>
<td>Conclusion</td>
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<tr>
<td>12h00-13h30</td>
<td>Lunch (CSIR ICC)</td>
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