

SPEAKING NOTES FOR**Reiner Kruecken****Master of Ceremonies *and* Head, Science Division, TRIUMF**

(check against delivery)

Thank you, Nigel, for that kind introduction.

Good morning Ladies and Gentlemen. It is my great pleasure to welcome you to TRIUMF and today's groundbreaking ceremony for the ARIEL project.

I want to welcome everyone to this wonderful occasion as we get ready to launch the next phase of building the ARIEL facility.

I especially want to welcome some of our champions and patrons who believe in TRIUMF, in Canada, and the power of Science to transform our lives.

- Richard Lee, a member of the provincial legislative assembly from Burnaby-North, parliamentary secretary for the Asia-Pacific Initiative, and a former employee of TRIUMF,
- Mark Strahl, a member of the federal parliament travelling here from Chiliwack today,
- Rachael Scarth from the University of Victoria
- Karen Russell from the UBC Campus & Community Planning department who have overseen the permitting and licensing procedures
- and Norbert Haunerland from the TRIUMF Board of Management along with Ed Odishaw from the AAPS Board of Directors."

Welcome also to the major construction contractors who are participating in this tremendous effort:

- Darren Rae, Scott Construction (Stores & Badge Room)
- Russ Chernoff, CTA Associates (design & overall management)
- Brian Nakai, Thurber Engineering (geotechnical & engineering work)
- David Mc Farlane, Ellis Don Construction (excavation)

And most importantly, I welcome the TRIUMF community of scientists, engineers, technicians, and other professionals who make everything work around here. TRIUMF is mostly about scientific discovery. But obviously none of that is possible without the hard work and dedication of the whole TRIUMF community and I want to express my personal appreciation for all the hard work that everybody is doing here.

Before we get too far along, let me address: "What is ARIEL?"

ARIEL stands for the Advanced Rare Isotope Laboratory.

It is a facility that will dramatically enhance TRIUMF's capabilities, indeed, Canada's capabilities, for producing rare and exotic isotopes for research in physics and medicine.

ARIEL will allow us to create those isotopes in the laboratory that are created for only fractions of a second when massive stars explode.

With that ARIEL will help us to understand where the chemical elements come from that make up our bodies and the world around us – remember, we are all made of stardust.

ARIEL also will allow us to produce new isotopes for medical research and will make TRIUMF the world leading laboratory in isotope research.

And finally, today marks the start of the most ambitious phase of constructing ARIEL. The project began last summer with the final design and engineering stages.

The next step was to construct a replacement facility for what was, until this past Friday evening, standing about 10 metres from right here.

That is, in order to build ARIEL, we had to first make room for it. And today we are ready for that first new step into the future.

Now before we officially start, I am inviting my colleagues here on the stage to say a few words to mark this occasion.

INTRODUCE PROVINCIAL GOVERNMENT REP

It is the Government of British Columbia that turned the light green for ARIEL. With a firm commitment to the knowledge economy and the type of excellence that comes from scientific leadership, BC announced its support for ARIEL last summer. To mark this occasion as we move from designing lab space to creating jobs for construction to making discoveries and building future high-tech jobs and businesses, I invite Richard Lee to speak.

Richard Lee was first elected as the MLA for the riding of Burnaby North in 2001 and was re-elected in May 2005 and 2009.

He was appointed Parliamentary Secretary for Asia-Pacific on September 26, 2011, and he has held dozens of important roles within the government on issues ranging from multiculturalism to the police to clean energy and education. He is a talented and dedicated representative of the people.

Richard is also a familiar face at TRIUMF.

Before being elected to the Legislature, Richard was a programmer analyst at TRIUMF. In 1976 he earned a Combined Honours Bachelor of Science degree from UBC in physics and mathematics, and in 1980 a Masters of Science from UBC in Applied Mathematics. From 1979 to 1982 he worked as a programmer at TRIUMF and in 1982 became a programmer analyst. So as you look around the laboratory today, rest assured that some of the people at TRIUMF will make great contributions to this province – perhaps one day as Premier or even Prime Minister!

INTRODUCE FEDERAL GOVERNMENT REP

Of course, nothing happens without a commitment of time and money. The Government of Canada marshalled an impressive array of resources to make ARIEL happen. With leadership from the Canada Foundation for Innovation and from the National Research Council Canada, ARIEL moved from an ambition to a real project. Building on an impressive set of investments into basic science and applied technology, the Government of Canada announced its support for TRIUMF and the ARIEL project last summer.

Let me share a few words of congratulations with you from the CFI President Gilles Patry, who could not be here with us today ...

“On behalf of the Canada Foundation for Innovation...I would like to take this opportunity to congratulate TRIUMF and the consortium of Canadian Universities as you take the next step to making the Advanced Rare IsotopE Laboratory (ARIEL) a reality. The imagination, creativity and commitment of your researchers, faculty and funding partners are commendable. The CFI proudly supports ARIEL - a one-of-a-kind facility that will solidify Canada's leadership role in superconducting accelerator technology. ARIEL will create the technology necessary to achieve scientific breakthroughs in particle and nuclear physics and be an example for the next generation of light sources.”

But CFI never works alone. The real spirit of partnership comes from across the federal government. The National Research Council is the oversight body for TRIUMF and NRC's vice president Danial Wayner said the following,

“ARIEL will position Canada at the forefront of this area of science for decades to come. It will be a source of great pride for the Government and for all Canadians.”

And here to speak in person about the Government's commitment is Mark Strahl. Mark Strahl first became involved in public service at a young age, perhaps influenced by his father's long career working for the greater good. Mark became a Parliamentary intern in Ottawa and worked with Preston Manning's office and was Parliamentary Assistant to MP Grant McNally. He then moved back to British Columbia and worked with several MPs before catching the bug and choosing to run for office himself. Mark was elected to the House of Commons where he is proudly serving the constituents of Chilliwack—Fraser Canyon, the area where he grew up. He sits on both the National Defence and Health committees in Ottawa.

INTRODUCE UVIC REP

This project would never have happened without the leadership of the University of Victoria. UVic led the 13 institution consortium that proposed the e-linac and ARIEL as a project of national importance. The principal investigator, Dean Karlen, is a professor at UVic's physics department and he is no stranger to TRIUMF, international prominence, or ambitious projects. Here to speak from the UVic perspective is Rachael Scarth.

Dr. Rachael Scarth, UVic's associate vice-president research operations, received her Ph.D. from Cambridge University in 1983 and became a faculty member at the University of Manitoba with a research focus in plant breeding and genetics. She later became the university's associate dean (research), agricultural and food sciences from 2001-06.

Rachael joined UVic as director of research services in 2006. She is responsible for the planning, direction and overall management of the operational units within the university's research support services.

INTRODUCE TRIUMF REP

Finally, I want to introduce my colleague Lia Meringa. She is head of TRIUMF's Accelerator Division, co-leader of the ARIEL project, and an adjunct professor at UVic. Lia came to TRIUMF from the U.S. to build ARIEL. She is one of the best accelerator physicists in the world and regularly advises other laboratories and other countries.

In her spare time, she wishes that real estate would get more affordable in Vancouver, ...just like myself.

LAUNCH

Thank you, Lia, Rachael, Mark, and Richard for your kind words and generous sentiments.

We are now at the moment. We are a highly technical laboratory and instead of using spades or shovels, we break ground in the modern way – on a computer with a YouTube video!

Please join me as we press the button and watch on the screen over here what ARIEL will become...

(Movie)

CONCLUSION

Before I let you go, let me thank you all again for your continued support for, interest in, and attention to TRIUMF.

We are here to serve Canada, and ARIEL is our new flagship. ARIEL, in combination with the existing TRIUMF facilities for isotope production, will elevate TRIUMF to world leadership in Advancing Isotopes for Science and Medicine.

I invite today's speakers to join me for a short photo opportunity and then we'll take a brief walk along the construction site so you can see where the electrons will be produced and follow the path the electron beam will take.

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