



13th World ORT Wingate Seminar

Leading Technology Innovation in Schools



9th-13th January 2012



**13th World ORT International Wingate Seminar
Leading Technology Innovation in Schools
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The Legacy of Minnie Wingate

This seminar, like its predecessors, is sponsored by the Harold Hyam Wingate Charitable Foundation. This endowment is not merely a decision by Trustees to support a worthy cause; it is an act that resonates with the Wingate family history.

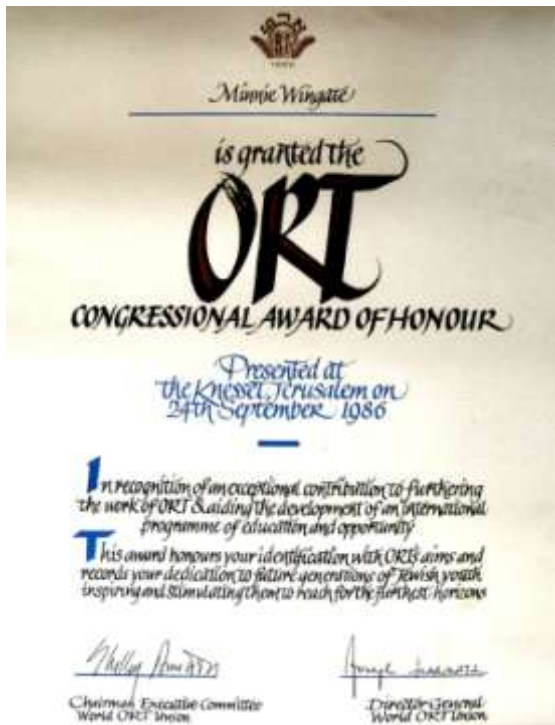
Harold (“Harry”) Hyam Wingate was my father, the 9th of 11 children of poverty-stricken Polish parents who, in 1898, brought their family to settle in the slums of London’s East End. Alone amongst his siblings, he was educated out of poverty by a succession of scholarships, first to a good secondary school, and thence to the Royal College of Science. He graduated with 1st class Honours at the age of 19, and became a research chemist. Four years on, he started reading law in his spare time, and was ‘called to the bar’ at Grays Inn in 1927.

Making a living as a patent barrister was difficult, but his life changed when, in 1930, he married Minnie, the daughter of a wealthy fur trader. His father-in-law funded the young couple to give them a secure middle class life style, and provided investments that transformed Harry into a successful entrepreneur. In the first decade of the marriage, the young couple indulged their love of music, theatre, winter sports and foreign travel, while nannies tended their growing family.

When news of the Holocaust emerged in 1945, Harry felt compelled to return to the religion that he had virtually abandoned on leaving home. Minnie, whose upbringing had been as secular as the early years of her marriage, loyally supported him, but she remained an agnostic. For the rest of her life, she deplored the role of religion in dividing communities and families. And then she was introduced to ORT by a friend.



ORT became her life. It gave her a career as organiser and fund-raiser; she co-founded British Women’s ORT, and then, when she and Harry immigrated to France in 1969, she moved into World ORT, becoming Chair and finally President of World Women’s ORT. Her energy, initiative, and gregarious nature brought her a host of friends in the World ORT community, as she travelled the world to visit ORT schools. She took great pride in the fact that ORT schools were not exclusively for Jewish children. At the same time, her ORT activities kept her in touch with Jewish culture and scholarship. Until his death in 1979, Harry encouraged her but stayed in the background; temperamentally, he was an individual who shunned the limelight. As a French resident, she was an adviser to the ORT school in Marseilles, and she ran ORT Cote d’Azur, inveigling the British expatriate community, Jewish and non-Jewish alike, into supporting ORT concerts and social events.



Apart from ORT, as a gifted pianist, she was a passionate music lover. She also loved gardens, books, Labrador dogs, family and friends. She struggled valiantly with the infirmities of extreme old age, and when she finally lost the battle, she was mourned by many across 3 continents, but not least by the devoted staff who cared for her in her final years. A remarkable lady; her life was succinctly summarised by one of her 9 grandchildren, who said 'She never bore a grudge'. Her legacy lives on, thanks to the Charitable Foundation that Harry established, in your presence at the Seminar. My best wishes to all for a successful seminar.

David Wingate MA MSc DM FRCP

Emeritus Professor and Honorary Fellow,
Queen Mary University of London
Trustee, Harold Hyam Wingate Charitable
Foundation.



It gives me great pleasure to welcome you to ORT House for the 13th annual World ORT Wingate Seminar. This seminar is for ORT IT professionals and each year focuses on a theme that is relevant to us as an organisation devoted to educating our students in up-to-date subjects using up-to-date methodologies. Modern technology offers unparalleled opportunities for educators but technology itself is not a guarantee of improvement, and these seminars allow us to carefully evaluate progressive educational ideas and to determine how to make them work for us.

Educating for life is our ethos but the pace of modern life is speeding up and students expect much more from their teachers and their education. There are several areas in which IT can positively address this expectation. With more demand for quality education, efficiencies in assignment, assessment and management of school work means that more students can be taught without a reduction in teaching quality.

With the move to a society of individuals, students expect and benefit from a more personalised course of learning. Social groups, collaborations and almost all communications have extended their reach through digital technology and students expect to be able to extend the compass of the conventional classroom and to have access to teachers and learning at locations and times that were previously unavailable. Enlarging the teaching zone in this way offers challenges and opportunities that require new educational strategies and methodologies, but can yield stimulating learning experiences and often surprising results.

The Seminars themselves can necessarily only reach a very small number of our educators, but we rely on our participants to share the knowledge and experience that they gain during the week with their colleagues and students. In this way they, too, will benefit from the seminar and the level of the World ORT education network will continue to rise.

I would like to express my thanks, and that of all of us, to the Wingate family and to the Trustees of the Harold Hyam Wingate Foundation. In sponsoring this seminar series they demonstrate their continued support of our organisation and their faith in our ability to continue to make a difference. I wish all our participants a productive, inspiring and enjoyable week.

Robert Singer

Director General and CEO, World ORT

Monday 9th

09:00-10:45	Opening Session Greetings from World ORT Professionals
09:15-10:15	Creating Compelling Learning Experiences Prof Jonathan Drori, Harold Hyam Wingate Foundation
10:15-11:00	World ORT Operations and History Sonia Gomes de Mesquita, Chief Operating Officer, World ORT Vladimir Dribinskiy, Chief Program Officer, World ORT
11:00-11:15	Coffee
11:15-12:00	Technology Enhanced Learning: an Introduction to the Seminar Daniel Tysman, Head of Education Department, World ORT
12:00-12:30	Going Google: A Jewish Day School's Experience with Google Apps for Education Dr Ari Yares, Krieger Schechter Day School, Baltimore, USA
12:30-13:00	Break
13:00-14:00	Lunch
14:00-14:30	World ORT Representative Office in Israel – Current and Future Plans Dr Osnat Dagan, World ORT Representative Office in Israel
14:30-15:30	Assessment in my Palm – Workshop and Discussion Dr Osnat Dagan, Tali Be'eri, Sigal Ofir and Zohar Nir Levi, World ORT Representative Office in Israel
15:30-15:45	Coffee
15:45-16:45	Collaborative learning environments: rethinking how students learn Jimena Castellión (CREA) and Lautaro Kremenchuzky (Chemistry Department), ORT Argentina, Argentina
16:45-17:15	ORT US Ops Presentation Dr Nurit Sharon, ORT US Ops, USA
19:00	Welcome Dinner

Tuesday 10th

- 09:15-09:45** **1:1 Learning with iPads**
Marc Falconer, King David High School, South Africa
- 09:45-10:15** **Society of Knowledge at CIM-ORT**
Mónica Lisker Melman, CIM-ORT, Mexico
- 10:15-10:45** **Individualized Education: the Skolkovo School Concept**
Gregory Vodopyan, ORT St Petersburg, Russia
- 10:45-11:00** **Coffee**
- 11:00-12:30** **Leading Technology Innovation**
Hannah Jones, Connecting Learning, UK
- 12:30-13:00** **Break**
- 13:00-14:00** **Lunch**
- 14:00-15:30** **Information Management Systems to Improve School Performance**
Keith Goatman, SIMS Capita, UK
- 15:30-15:45** **Coffee**
- 15:45-17:15** **Leading Technology Innovation (continued)**
Hannah Jones, Connecting Learning, UK
- 19:00** **Guided Tour of London**

Wednesday 11th

09:00-11:00 **School Visit**

11:30-17:30 **BETT Show, Olympia, London**

BETT is the world's largest educational technology event. Discover the latest ways to use technology for teaching and learning.

Lunch available in and around the BETT show.

14:00-15:30 **Special Presentation from Promethean**

19:30-17:00 **Musical: Crazy for You, Novello Theatre, Aldwych**

Please be outside the theatre by 19:15 at the latest.

Thursday 12th

- 9:00-11:30** **Visit to Yavneh College, Borehamwood**
- 11:30-11:45** **Coffee (ORT House)**
- 11:45-12:15** **Teacher Networking through Twitter**
Ariellah Rosenberg, South Africa
- 12:15-12:45** **Networking the schools: ORT experience in FSU**
Anna Michurina, ORT Odessa, Ukraine
- 12:45-13:00** **Break**
- 13:00-14:00** **Lunch**
- 14:00-15:30** **Which Way with Moodle?**
Ray Lawrence, HowToMoodle Ltd, UK
- 15:30-15:45** **Coffee**
- 15:45-16:15** **Novices and experts in using smart classes**
Vera Daud and Husain Salame, World ORT Representative Office in Israel
- 16:15-16:45** **Dialog and Greenhouse Projects at Shikma**
Ofra Halperin and Avraham Malesa, World ORT Representative Office in Israel
- 16:45-17:15** **Kadima Mada Involvement in Technology Competitions**
Samuel Cohen, World ORT Representative Office in Israel
- Free Evening**

Friday 13th

- 9:15-10:45** **Creating and Sharing Learning Materials with Resource Banks**
Andy Smith, Head of Resources, TSL Education, UK
- 10:45-11:00** **Coffee**
- 11:00-12:00** **Closing Session**
Attended by Jean de Gunzburg and Roger Wingate
- 12:00** **Lunch**

Guest Speakers



Professor Jonathan Drori CBE FLS
Chairman of the H. H. Wingate Foundation
Director, Changing Media Ltd, UK

Jonathan Drori has dedicated his career to media and learning. As the Head of Commissioning for BBC Online, he led the effort to create bbc.co.uk, the online face of the BBC. He came to the web from the TV side of the BBC, where as an editor and producer he headed up dozens of television series on science, education and the arts.

After almost two decades at the BBC, he is now a director at Changing Media Ltd., a media and education consultancy company. In addition to this, Jonathan is Visiting Industrial Professor with the Graduate School of Education at Bristol University, UK, specializing in the uses of technology in education. Previously he was Director of Culture Online, a programme at the UK government's Department for Culture, Media and Sport (DCMS) designed to take culture and the arts to new audiences using a range of new technologies, and has also been Head of Commissioning/Editorial Director for BBC Online and Head of Digital Media and Learning Channels at BBC Education. His television and new media work have been recognized by BAFTA and the Royal Television Society.

Jonathan is also MD of Thoughtsmith, a London consulting group; is a trustee of the 24 Hour Museum; present Chairman of the H. H. Wingate Foundation; and on the grant-making Learning Committee of the National Endowment for Science, Technology and the Arts. He is a Fellow of the Royal Society of Arts, a member of BAFTA, the Royal Television Society and the IEEE. He writes for the Financial Times and is an occasional Executive Producer for Channel 4 for landmark science series, most recently winning an Emmy for *The DNA Story*. Jon is Visiting Professor at the University of Bristol, specialising in the uses of technology for learning.



Hannah Jones
Founder and Director
Connecting Learning, UK

Hannah Jones, founder of Connecting Learning, recently left the post Special Projects Director at the National College for the Leadership of Schools and Children's Services where her role was to provide leadership and direction for the College on leadership of transformation through large scale ICT and Capital expenditure .

During her time at the National College Hannah initiated, designed and delivered high quality leadership programmes and to a scale unmatched nationally or internationally in the areas of leadership of ICT and capital investment. One of these programmes was the highly successful Strategic Leadership of ICT (SLICT) programme. SLICT was a national intervention strategy and Hannah whilst at the National College was tasked with ensuring that a critical mass of school leaders, (40%), was able to strategically plan for ICT in schools. In September 2004 Hannah Jones joined the National College and the programme was heavily revised and several bespoke versions delivered, this combined with an extensive communications strategy took the programme from 1 881 participants to over 10 000 (40%) by March 2006.

The success of the programme, and raised market demand, secured funding for the programme for a further two years and the final target achieved reached 13 000. External evaluations were also overwhelmingly positive with Ofsted, PwC and Henley identifying the programme as a strong agent for change in teaching and learning practices and for leadership and management .

Prior to her time at the College Hannah was Director of the first Interactive Whiteboard Pilot at the National Strategies that was, within one year, rolled out to a National Programme with £50M secured for schools. Hannah went on to develop and deliver further ICT related programmes and projects for the National Strategies and worked proactively across government organisations to ensure that leaders were informed and sufficiently skilled to strategically lead ICT in their schools and deliver the best outcomes for young people .

Aims of session :

To provide an overview of research and practice within England into learning and teaching with new technologies

To discuss the importance of strategic leadership of new technologies and present lessons learnt from England's highly successful Strategic Leadership of ICT Programme

To review and discuss the strategic, tactical and operational measures deployed by successful school leaders to embed new technologies in their schools

To showcase best practice examples and provide leaders with tools to support their thinking

Overview of session :

Hannah Jones will begin the sessions by looking at the implementation of Interactive Whiteboards in English schools, highlighting some of the successes and pitfalls of embedding this technology in schools. She will then expand this and look at new technologies to support learning and teaching more widely, providing examples of tools and techniques used by leaders to support and develop good practice using ICT in their schools. Continuing with the leadership aspect of embedding new technologies in schools Hannah will move on to the importance of strategic leadership of ICT in schools, showcasing best practice examples of use of ICT and the approaches taken by leaders within these schools.



Keith Goatman
International Business Development Manager
SIMS-Capita, UK

Keith leads Capita's International business development team and has worked in education for over 20 years. In addition to a first degree in Geology, Keith has a Masters in Computer Science and a background in teaching both in schools and Further Education.

Keith joined Capita to help develop both their SIMS school and EMS local authority management database systems. SIMS has since grown to be the most widely deployed school MIS in Europe, being used daily by some 22,000 schools in over 40 countries around the world.

In recent years he has worked closely with the International school sector. As well as ensuring their MIS product needs are met, Keith has been helping this sector make effective use of SIMS to improve both academic and financial performance.

Managing school data to improve decisions and communication

School management systems have come a long way in the last 20 years and now form a vital part of toolkit needed to manage a school effectively.

Through reducing workloads by automating repetitive processes and providing the capability to measure and monitor pupil performance school management systems help all staff in the school achieve more.

This workshop will showcase some of the latest developments in school management software systems including

- Embedded messaging services – to streamline communications both within the school and between the school and parents.
- Data mining tools – to help school managers get the information they need to make better decisions.
- Remote database access and attendance data collection – allowing schools to have immediate access to important data when away from school on iPad/iPhone



Ray Lawrence
Director
HowToMoodle Ltd, UK

Ray discovered Moodle in 2002 when researching e-learning for a national project and things would never quite be the same again. Recognising that much of the implementation effort in Moodle projects centred on technical aspects he founded HowToMoodle to provide expert training and consultancy services to organisations.

As well as being the first company established with an exclusive Moodle focus, HowToMoodle was one of the initial group of service providers worldwide to establish the Moodle Partner programme that continues to fund Moodle development.

Ray divides his time between running HowToMoodle and consulting with the company's diverse client bank that ranges across educational organisations, charities, commercial organisations and the public sector.

Although a long time Moodler and an enthusiastic and pragmatic advocate of the platform he is equally passionate about the implementation of projects being driven by organisational need rather than the availability of technology alone.

Which way with Moodle?

It would seem that the Moodle Learning Management (LMS) system is practically ubiquitous when considering a platform to support e-learning, yet despite this there is often a lack of clarity about where a LMS sits within an organisation's learning infrastructure and how to unlock the potential it offers. In many cases implementations focus on technology rather than what needs to be achieved through its implementation.

In his presentation Ray will attempt to demystify some of the terms that abound when planning an implementation. He will also pose questions about fundamental issues that are all too often overlooked at the evaluation and planning stages. Ray will share tips on how other large organisations have embedded Moodle effectively.



Andy Smith
Head of Resources
TSL Education, UK

Andy Smith has recently taken on the role of Head of Resources for Times Supplements Ltd (TSL) Education, the company behind the TES. The Times Educational Supplement may be enjoying its centenary year but the business is increasingly online focused with over 50% revenue now coming from digital. Andy joined from Teachers TV where, as Director of Digital Media, he was responsible for taking the TV service online, the digital strategy and providing over 1 million video views per month. Teachers TV provides Continuing Professional Development by sharing best practice worldwide from teachers, experts and those working in education. Andy's interest in video began working as Digital Operations Director Endemol, the company behind Big Brother and Deal or no Deal before which he worked as a project manager for the Financial Times .

Collaborative Resource Banks

Educational resources are big business and it's getting bigger. TES Resources is the UK's largest resource provider to the educational workforce with over 1 million downloads per week and 1.6 Million visitors per month. The TES provides the platform where teachers upload, swap and collaborate on resources for other teachers. The presentation will provide a view into the structure of today's product and how it's used as well as future developments around the social model and international expansion.



Visit to Yavneh College, Borehamwood, Herts.

Yavneh College is a comprehensive school for boys and girls aged 11-18 years. The school was established in 2006 on a £30m campus designed to offer state-of-the-art facilities for 1,000 pupils. As a Jewish school, their aim is to produce young people who are proud of their heritage, confident in their religious practice and equipped with the academic qualifications and wider skills necessary for success in a modern world.

Yavneh College was very recently recognised as an 'Outstanding' school by the UK's schools inspectors, Ofsted, the highest possible rating. It was ranked 7th in the 2011 national GCSE league table of top-performing totally non-selective state schools and has achieved many other awards for its excellent educational provision, including the ICT Mark in recognition of the quality of ICT at the College

Dr. Dena Coleman is a well-respected educator who has devoted her career to the teaching profession, the last eighteen years as a Headteacher. Her distinguished record of achievement in both secular and Jewish schools and her contribution to education bodies both in Hertfordshire and nationally has been recognised by her inclusion in Who's Who, the definitive directory of noteworthy people in the UK. Yavneh College is Dr. Coleman's third headship.

Colin Jackson, the College's Head of ICT, will showcase the use of Moodle by the teaching staff, and a representative of the Network Support Team will be available to answer your queries.



BETT Show

The BETT (British Educational Training and Technology) show is an annual event showcasing the use of information technology in education. BETT is the world's leading event for educational technology where education professionals can evaluate and purchase a comprehensive range of ICT products and services. From early years to universities, BETT is an indispensable part of the annual knowledge-gathering process. This year, BETT takes place between 11-14 January 2012, at Olympia in London, and you can expect to find stands with the latest products and developments from companies ranging from multinationals such as Microsoft and Apple Inc. to small single-product firms covering all areas of education and schooling. BETT attracts around 30,000 visitors over four days, from over 100 different countries. Around 600 technology companies who market to schools, colleges and education establishments exhibit at the show.

Promethean

We will have a private presentation from Promethean, one of the world's most successful companies providing technology solutions to schools. There will be opportunities to learn about the range of solutions that are addressing the issues concerning schools at the moment – including productivity, data driven decision-making, assessment for learning and collaborative learning – as well as a chance to see how integrated technologies can be used to improve teaching and learning. Promethean's portfolio of solutions encompasses many types of usage, including whole class, small group collaboration, personal, online and mobile learning, as well as supporting assessment across the full range of modern technology. These solutions, which are currently in use in more than 850,000 classrooms around the world, are enhanced further with curriculum content, community tools, technical support and online training.

BrainPOP

Devised in 1999 by Dr Avraham Kadar, BrainPOP grew in the USA from the community of children, teachers and parents using and contributing to the site, to the millions that now use it daily around the world. BrainPOP is a highly engaging website which contains hundreds of animated explanations and interactive quizzes for children from the age of 7 upwards. Already a tremendous success in the USA, BrainPOP is any easy to integrate, simple to use, engaging, and extremely popular with pupils. BrainPOP did not start life like most educational resources, where publishers begin with a target audience, age group and the learning objectives to be covered. Instead, BrainPOP movies are a result of questions from real kids and teachers, so BrainPOP covers a broad range of subjects, from simple addition to black holes, and William Shakespeare to feminism. Each movie is carefully levelled to make the subject accessible to as many kids as possible, and there are layers of learning in each movie. These are extended by the quizzes and support activities which reinforce and extend the learning opportunities.

Seminar Participants



Lydia Abel, Director ORT CAPE, South Africa

Lydia Abel has a D.Phil in Education with extensive experience as an Education Development Specialist working with NGOs in South Africa where she has been actively involved in Teacher Development for Science, Maths and Language. She understands the complex issues that confound education in rural development and the often intractable issues in urban townships.

Lydia worked with Moratho Media and Every1Mobile (UK) to push educational material on to mobile phones - often the only computer available to poor young South Africans. Using Mxit as a platform, Bsmrt was launched in October 2010 followed by YESA (Young Engineers of Africa) and Bedtime Stories in 2011 with the express aim of ensuring that no one goes without educational access – be it vocational, educational or careers information especially in the gateway areas of language, science and maths.

Following her retirement as Director of the Schools Development Unit at University of Cape Town after 8 years, Lydia took on the volunteer work with ORT TECH which led to her appointment as Director of ORT CAPE in 2011.



Ruth Argaman, Biology Teacher, Sha'ar Hanegev School, Israel

Ruth Argaman received her M.Sc. in Plant Physiology and went onto achieve her Teaching Diploma. Ruth has been teaching biology and chemistry for the last 30 years and at college level for the past 15 years. She is a teacher trainer for science teachers and has written biology textbooks for high school level. Ruth has been an innovation leader for the past three years.



Smadar Avidan, Physics Studies Coordinator, Mekif Alef High School, Be'er Sheva, Israel

Smadar Avidan holds several positions including the Physics Studies Coordinator in Mekif Alef High-School in the city of Be'er Sheva, Israel, the Negev Regional Guide of the Ministry of Education for Physics teachers and the Didactic Course Moderator for Physics Tuition Diploma in Ben-Gurion University of the Negev. Smadar has 19 years of Physics teaching experience and for the last 7 years has also headed a special project preparing pupil delegations to NASA. Smadar holds a B.Sc. degree in Exact Sciences and Tuition Diploma in Physics from Tel-Aviv University.



Dalit Avigad, Vice Principal and Teacher, Kadoorie High School, Israel

Dalit Avigad teaches chemistry in Kadoorie High School, which is located in the Lower Galilee. She is the vice-principal and in charge of pedagogy. A graduate from the Technion in Science Instruction, she won the annual award for the excellent teacher in the country of the Israeli Society of Chemistry.

At school she heads the program to implement the use of technology in teaching and leads the staff to a meaningful change through pedagogical innovation.



Tali Be'eri, ICT and Excellence groups leader, Emek Hachula High School, Israel

Tali Be'eri is a Biology and General Science teacher at Emek Hachula High School where she also leads the excellence groups and the ICT implementations. Currently Tali is working on her doctoral dissertation that deals with learning processes in solving authentic problems. The issue of designing learning environments that are closer to natural learning and dealing with problems that students bring from their own life and interest. Authentic problems stimulate a solid and relevant learning foundation for students.



Jimena Castellión, CREA Coordinator and Teacher Trainer, ORT Argentina, Argentina

Jimena Castellión is an English-Spanish technical-scientific translator and an English Language teacher. She has been working as a teacher of English at ORT Argentina High School since 1995 and for the past 7 years has been developing virtual teaching materials at the CREA (Centre of Teaching and Learning Resources) at the same school, where she now leads teacher training programmes.

Since 2009, she has coached and lectured at several Teacher Training Projects, aiming at planning and designing educational sites, both at ORT Argentina High School and for other public and state schools in several Argentina districts, which ORT Argentina advises in ICT innovation issues.

At present, she is the CREA Coordinator and a member of the ORT Training unit Senior staff to share such innovation ideas into the School 2.0 Project running at ORT Argentina High School and its Virtual Campus.

Presentation: Collaborative learning environments: rethinking how students learn

The Teaching and Learning Resources Centre, CREA, has become a community of educators who have committed themselves to examine the impact of new trends and methodologies in education. Its primary goals have been to establish a clear view of the role of ICT in 21st century learning, to examine implications of ICT's emerging role for teaching and learning models and teacher professional training .

To reach every user in our community at all times, ORT Argentina's Virtual Campus was developed. A platform which compiles and indexes information and resources giving access to lifelong learning opportunities. Social networking applications are also available and offer the potential of opening up educational resources for free access and use.

Above all, ORT Argentina's Virtual Campus is a meeting point for teachers and students, for families and educators, which fosters true ubiquitous multimedia communication and reveals learning experiences .

Jimena Castellión (CREA) and Lautaro Kremenchuzky (Chemistry Department) will present a wide variety of learning materials, activities and projects developed at their school. To experience the potential of the platform, they will also invite you to participate in an interactive workshop on Environmental issues.



Samuel Cohen, Pedagogical Coordinator of Science and Technology, World ORT Representative Office in Israel

Samuel Cohen completed his bachelor degree at the Technion Institute in the subject of science and technology pedagogy. His masters degree is in Information and Communications Technology gained at the University of Derby through Inter-college Israel. Samuel has 36 years of experience in education. He currently teaches in Anna Frank High School in the mechanical department and has for five years acted as the pedagogical coordinator of Science and Technology in the north of Israel.



Dr Osnat Dagan, Pedagogical Head of the World ORT Office in Israel

Osnat Dagan is the Pedagogical Manager at World ORT Representative Office in Israel. Her academic and professional interests include enhancing design and technology, the use of innovative pedagogy with ICT technology, and developing thinking and problem solving skills in constructivist methods. She received her PhD from the School of Education at Tel-Aviv University in Israel. After 20 years of teaching she worked in developing new curriculum materials for science and technology education. She worked in World ORT, London as the Research & Development coordinator and returned to Israel as a Technology Teacher Center manager in the Technion.



Vera Daud, Chemistry teacher, Science Coordinator, Abu Snan High School, Israel

Vera Daud graduated from the Ben-Gurion University and achieved her bachelor degree in Chemistry in 1986. She began teaching chemistry the same year at Abu-Snan comprehensive high school.

Vera coordinates the Chemistry department and has been working as an innovation leader with World ORT Representative Office in Israel since 2008.



Alina Marcela Engel, Mathematics Teacher, Kadoorie Junior High School, Israel

Alina Engel has been a Mathematics teacher in Kadoorie Junior High School for 16 years, five of which she served as the Head of the Math department. She received her bachelor's degree in Education from Levinsky College and her master's degree in Math Education from Haifa University.

Since 2007 when the interactive white board was introduced to her school, Alina has been active in implementing this technology in her math lessons. Having mastered this innovative technological tool, she encouraged her colleagues to follow in her footsteps by giving in-service training classes. As a result of her effort, she has increased the number of teachers who now use pedagogical tool.



Marc Falconer, Headmaster, King David High School, South Africa

Marc Falconer is the Headmaster of King David High School, Linksfield. He is a teacher of literature and has had experience teaching in the UK, New Zealand and in various independent schools in South Africa, a country crippled by a dysfunctional education system. Marc believes that a technology may be one way of overcoming the country's crucial educational challenges and, with colleagues, he is exploring the use of the iPad (or other electronic devices) to deliver a curriculum that stimulates higher order thinking and allows pupils to develop a sense of self reliance and academic independence.

1:1 Learning with iPads

This presentation describes the inception of a pilot 1:1 iPad learning programme in a large co-educational South African Jewish day school with a group of Year 9 pupils. The programme addresses the need to engage our pupils in the learning process in different ways, extending the academically able pupils and resourcing our Ed Support pupils (about 10 percent of the school); revitalising teaching methodology and equipping all our pupils with higher order thinking skills and subject specific information as well as resourcing and providing materials for the whole year group. Key factors identified for the success of the programme such as funding, parent support and communication and the preparation of both of pupils in the pilot group and those who were not selected are discussed. Also identified as pivotal to the success of the programme has been and continues to be teacher training: selecting and encouraging teachers to be part of this demanding and time consuming venture that does not only involve the sourcing and preparation of new materials, but also an entirely new teaching philosophy. To make sense of the successes and areas of potential improvement in the programme the presentation also examines the need to find ways to benchmark the academic progress of those pupils in the pilot against others who are not learning in this way.



Ofra Halperin, Vice Principal, Shikma High School, Israel

Ofra Halperin is the Vice Principal and teacher of Biblical studies at Shikma High School. Together with teaching coordinators she deals in promoting technology in the classroom and encourages teachers to learn using Innovations in teaching. Ofra is responsible for pedagogical plans in general. She has a BA in History of Art and an MA in Jewish Philosophy.

Dialog and Greenhouse Projects at Shikma

Ofra will talk about an innovative new lesson plan that teaches social awareness called Dialog, developed and implemented at Shikma High School. This course is based on subjects brought up by the students themselves. Each meeting is conducted according to agreed rules, and provides students with important social skills.

Ofra will talk about another social project dealing with sustainability. The new Shikma greenhouse will give the students an opportunity to do science research connected with a local biological-control company, combining studies with community involvement. For students, the greenhouse will give a place to deepen their science involvement, and deal with environmental studies.



Samir Hamudeh, Chemistry Teacher, Kana of Galilee High School, Israel

Samir Hamudeh has a second degree in Chemistry from Haifa University and BSc from the Hebrew University, Jerusalem. He has been teaching Chemistry In Kana of Galilee High School since 1984 and is also the school's Coordinator of Science. He is also the World ORT Representative Office in Israel representative for new initiatives for developing science projects in the school.

One of the most important projects he initiated investigated the chemistry industry in Israel. This involved student groups producing a film about the process of producing olive oil in Israel and conducting research on the production of soap and detergents. Another group reviewed the medical industry in Israel. The results were presented at Weizmann Institute where they won the first award. Later, the results were presented at the Sciences Day in the school which encouraged other students to choose sciences as their major.



Lautaro Kremenchuzky, Chemistry Teacher and Department Head, ORT Argentina

Lautaro Kremenchuzky is a Biochemist and a Chemistry teacher graduated at the University of Buenos Aires, Argentina. He is an ORT Argentina High School graduate and has been teaching Chemistry, Biochemistry, Food Chemistry and Microbiology at ORT Argentina High School since 2008. In 2011 he became the Head of the Chemistry Department.

As a teacher, he works at different institutions, such as the Buenos Aires University, ORT Argentina's Institute of Technology and the Maimonides University, teaching Organic Chemistry. As a University student, he became part of the Organic Chemistry Department of the School of Pharmacy and Biochemistry at Buenos Aires University, where as part of a research group, won an investigation grant and published several papers in scientific journals.

Today, leading the Chemistry Department at ORT Argentina, Lautaro fosters collaborative on-line projects, such as "Experience H2.0", to create awareness of environmental issues in students and the whole society.



Hanna Laitman, Chemistry Teacher, Yiffat High School, Israel

Hanna Laitman gained her BA in Chemistry in 1976 and since then she has been teaching Math and Chemistry at Yiffat High School preparing students for matriculation.

For 27 years until today she has volunteered as the director of the youth program in Kfar Baruch. Hanna is professionally interested in new programs and new learning technologies especially in chemistry.



Zohar Nir Levi, Geography Teacher, Sha'ar HaNegev High School, Israel

Zohar Nir Levi is a teacher at Sha'ar HaNegev High School located near Gaza in Israel. Zohar studied at Ben Gurion University where she obtained a BA and an MA in Geography and qualified as a teacher. Zohar teaches geography to all the grades from 10th to 12th, preparing students for matriculation at the highest level.

Zohar is head of study strategies at the school, is in charge of students with learning difficulties and has held the position of coordinator of the Senior High School. She was involved with the team that developed an Interdisciplinary Plan for Science and Geography studies at the school. She was responsible for integrating the use of computers, at home and school, for both teachers and students.

For the last three years, she has been an innovation leader in her school, in charge of using new technology in teaching and studying processes. Working with large numbers of students, organizing teachers, meetings and study and liaison with school management.



Mónica Lisker Melman, Principal and Biology Teacher, CIM-ORT, Mexico

Mónica Lisker obtained a BS degree in biology from the Universidad Nacional Autónoma de México (UNAM) in 1980. She then studied at the Maharishi European Research University, receiving a BS degree in Creative Intelligence in 1983. Currently she is studying a MA in Education.

Monica has taught biology at public and private schools at the middle- and high-school level since 1976. She is currently a biology teacher and the Academic Principal at the Colegio Israelita de México in Mexico City, where she also lives.

Society of Knowledge at CIM-ORT

In this presentation, we'll revise the current situation of the use of technology in CIM-ORT. Furthermore, we will present the school's new goal and the way that, in the time frame of two and a half years, the learning process will be transformed in such a way that each student and each teacher in school will have the necessary tools and skills to take part of the Society of Knowledge of the XXI Century.



Riva Mano, Biology Coordinator, Har VaGuy High School, Israel

Riva Mano has a BSc in Biology and an MSc in Pharmacology from the Hebrew University in Jerusalem, Israel. She is the coordinator of Biology and also teaches the subject in the Har- Vaguy High School which is situated in Kibbutz Dafna in the Upper Galilee. Riva has been teaching 7th to 12th graders for the past 25 years and for the past year has been the representative of World ORT Representative Office in Israel in her school. This consists of promoting the use of the "Nova" kits in the teaching of the sciences to students in the junior and senior high, and encouraging the teaching staff to combine computers with the teaching of the sciences.



Abraham Melese, Hodayot Youth Village School, Hodayot, Israel

Abraham Melese originally from Ethiopia, came to Israel in 1991 as part of "Operation Solomon". His mother tongue is Amharic but he is a competent English speaker. While in Ethiopia Abraham studied at the Gondar teacher training Institute and then in Israel at the David Yellin Academic College of Education gaining certification at each. Abraham gained his BA from Oranim Academic College, a teacher training college in Northern Israel and is currently studying at the Schechter Institute for his MA.



Anna Michurina, Computer Science & Technology teacher, Odessa Specialized ORT School #94, Ukraine

Anna attended the Odessa State University, studying at the faculty of mathematics and mechanics, Scientific-Industrial Department, gaining a higher education diploma in 1994.

After working as a systems programmer until 1998 Anna became a teacher of computer science and technology at the Odessa Technology Centre of World ORT, where she is still working as the director and a teacher. Since 2007 Anna has been the senior expert in the Research and Development Department, where she directs the organisation of educational projects for ORT schools, educational seminars for teachers and contests for pupils and conducting master-classes in educational technology.

Presentation: Networking the schools: ORT experience in FSU



Heidi Morgan, Director, King David High School, South Africa

Heidi Morgan studied at the University of Cape Town where she holds a Bachelor of Science and a Masters degree in Philosophy of Education. She is a published author of Mathematics school textbooks. She is interested in finding ways in which technology can be used to enrich pedagogy in classrooms and improve accessibility to quality education for learners in emerging economies.



Ronith Motzeri, Southern Pedagogical Coordinator, World ORT Representative Office in Israel

Ronith Motzeri is the World ORT Representative Office in Israel Pedagogical Coordinator for the Southern Region in Israel. Her responsibilities include liaison with the Southern Region Schools and guiding the schools in the educational usage of the technological tools introduced in the classrooms by World ORT. Ronith has 20 years teaching experience and has served as Vice Principal for 5 years in a Be'er Sheva high school with 1500 students. She has a Bachelor of Science in Biology, a Teaching Certificate, an MBA in Management and a certificate in school administration all from Ben Gurion University.



Anat Netzer, Science Program Director, Rogozin High School, Israel

Anat Netzer has over 30 years of experience in education and over 20 years of experience in instructing and training in computer-aided education. She achieved a MSc in Education and Technology in Science and a BSc in Biology at the Technion, Israel's institute of technology. Anat has taught numerous classes and students with the aid of computers, instructed and trained many teachers on the use of computers in education and developed numerous program curricula for computer aided education.

Anat's experience includes serving as a National Biology Instructor for the State of Israel, instructing biology teachers on the use of spreadsheets in biology, developing curriculum for remote education of the Blood System and applying it to remotely teach students in numerous locations and serving as a biology teacher and director of the science program at Rogozin High School in Kiryat Ata. She has served as the World ORT's representative for the development and promotion of computer aided education at Rogozin for the past two years.



Sofia Kleyman Nudel, Marketing Consultant and Teacher, Instituto Tecnológico y de Estudios Superiores de Monterrey and CIM-ORT School, Mexico

Sofia Kleyman Nudel graduated with a bachelor's in Marketing, and master's in Business from the Instituto Tecnológico y de Estudios Superiores de Monterrey, Campus Monterrey. Sofia has 20 years of professional experience in several marketing areas including marketing research, advertising, sales promotion, strategic planning and services marketing. She has worked in several industries which include: services, consulting, conference and corporate courses. Her experience includes 22 years working at the Instituto Tecnológico y de Estudios Superiores de Monterrey and CIM-ORT school, teaching subjects in Marketing and has published articles with CNN and El Financiaro.



Sigal Ofir, Teacher of Electronics, Neshet High School, Israel

Sigal Ofir has been a teacher of Electronics for the last 18 years in Neshet High school. She has a BA in Technological Education and an MA in The History of the Jewish People.

As the coordinator of Electronics Oriented Studies at her school, Sigal instructs the pupils through the highest levels of electronics and computer studies and guides them while they develop electronics projects independently, encouraging most to go on to the field of engineering for their academic studies.

Sigal is the school's pedagogical coordinator and is also responsible for some of the most important technological initiatives in school including maintaining relationships with the local hi-tech industry in Neshet for coordinating student visits, industry lectures and ideas and collaboration for developing student projects. Sigal initiated a special education class where pupils study the basics of baking in one of the local hotels and will be in charge of their department's economic administration.



Liat Partuk, Electronics Teacher, Ashkelon High School, Israel

Liat Partuk teaches electrical and electronic matriculation exams at the Ashkelon High School and has taught there for 19 years. Liat is responsible for the students of the electronics department who must study electronics in addition to school standard school curriculum. She has a Bachelor's degree in Technology and a Master's in e-learning technology. Liat is a board member at the school, and responsibilities include matriculation coordination, liaison with the Ministry of Education in all subject exams, managing ICT in the classroom and the school, student and course management systems.



Rivka Reves, Biology Teacher, Kfar Hasidim High School, Israel

Rivka Reves achieved her BSc in Biotechnology from the Hebrew University in Rehovot and her Teaching Diploma in Biology from the Hebrew University in Jerusalem. She has worked nine years in the dairy industry as a food technologist and since 1999 has worked as a high school biology teacher. Riva has a professional interest in developing e-learning in biology.



Ariellah Rosenberg, Head of Educator Empowerment, ORT South Africa

Ariellah heads the Educator Empowerment Division at ORT South Africa. She is a Google Certified Teacher, an Executive Member of the South African Board of Jewish Education and she was also one of the nominees for "Women of the Year" in 2010. Can be found twittering @Ariellah and blogging <http://ariellah.wordpress.com/>



Hosein Salame, Computer science teacher, Hurfeish High School, Israel

Hosein Salame is leading a continuing education program in Israel's 21st National Technology in Education program. As well as teaching computer science, Hosein plans, designs and builds web sites and motivates teachers to integrate technology into education. As part of this Hosein leads the Smart classroom and interactive whiteboard project.



Diab Sawaed, Teacher, Ibrahim Nimer Hussein High School, Shfar-Am, Israel

Diab Sawaed graduated from Hadassah College in Jerusalem in laboratory medicine in 1984. He graduated from Bar Ilan University in Life sciences and received a teaching certificate from Haifa University in the subject in 1999. In 2010 Diab completed his MA degree in Education Policy, Leadership and Management from Haifa University. Diab has wide experience in medical and scientific laboratories in many fields. He has been also teaching in Ibrahim Nimer Hussein comprehensive school In Shfar-Am since 2003. In addition to his job as a teacher he is also the representative and coordinator of World ORT Representative Office in Israel at his school.



Dr. Nurit Sharon, Bramson ORT College, USA

Dr Nurit Sharon is a native of Israel. After completing her bachelors and masters degree in London, she moved back to Israel where worked as a School Psychologist and School Councillor, and was involved in projects designed to enhance low-income student performance. She moved to the US where she completed her PhD working with Prof. Comitas specializing in Social Structure, at Teachers College, Columbia University. Nurit and Dr. Buhks founded the E-Learning centre, where Jewish students are encouraged to enhance their secular education, ultimately improving their earning potential in the workforce. In addition, the centre provides tutoring to Bramson students, including groups of extremely religious Jewish students, who did not receive secular education. As faculty of Bramson ORT College Nurit is co-chairing the distance learning department, where she also teaches a number of liberal arts courses using Blackboard. The program offers a complete Business degree online, for students in the US or abroad.



Samira Shibli, Biology Teacher, Shibli High School, Israel

Samira Shibli gained her first degree in Biology from Haifa University and in 2007 completed her MA in Education Management from Derby University in Israel. Samira taught in elementary school for four years then started teaching at Shibli High School as a biology teacher to five matriculation units. She is a social activity coordinator at her school in addition to her role as World ORT representative.



Eynat Shiener, Biology and Physics Teacher, Rogozin High School, Israel

Eynat Shiener has been a biology and physics teacher for 17 years. She has a BSc in biology from the University of Haifa and is currently studying towards a degree in computer science at the Technion. She has been a space science project leader for 7 years and continues to instil in students the independent thinking and the desire for excellence.



Terry-Nili Sonnino-Bartov, Art and Computer Graphics Teacher, Tefen High School, Israel

Terry Sonnino-Bartov teaches art and computer graphics at Tefen High School in Galilee and is the school representative for World ORT Representative Office in Israel. She has a BEd in Art from Beit Berl Hamidrasch in Israel and an MA in Art and Holistic Health from Lesley University, Israel. Prior to her current teaching role, Terry was a nature guide at the Society for the Protection of Nature in Israel and taught at a special education high school in Nez-Ziona in Israel. Terry is dedicated to working with children and to assist to their wider view of the world.



Orna Tsur, Technology and Computer Coordinator, Nofey Habsor High School, Israel

Orna Tsur studied at Tel-Aviv University focusing on developing computer-aided teaching programs and now teaches technological subjects at the high school. She is head of teacher training in her school, tutoring teachers in the use of the interactive white boards and teaching methods for notebook equipped classes. Orna is a computer instructor at the Ministry of Education for which she also develops portions the website. She is also in charge of developing her school's website.



Gregory Vodopyan, Deputy Principal, ORT Gunsburg School #550, St Petersburg, Russia

Gregory Vodopyan has worked at School #550 ("ORT-Gunzburg, St. Petersburg") since 1996, having prepared and managed the project "Assessment of School IT-state" and "Evaluation of new generation school supplies" (The project "E-learning support project" by National training foundation of Russia Federation). He is currently ORT-Russia's Deputy Principal.

Gregory designed and implemented a curriculum of IT for the "ORT-Gunzburg, St. Petersburg" school and the school internet/intranet database which contains information about pupils, curriculum etc. In framework of the Open Society Institute (Soros Foundation) project designed and managed connection St. Petersburg schools to internet and project "Internet-Centre of didactical educational resources for secondary school – Infoteka".

Prior to working for ORT, Gregory taught physics at Physical and Mathematics Lyceum #239, St. Petersburg, Russia and has written a number of papers dealing with teaching methods.

Presentation: Individualized Education: the Skolkovo School Concept

Skolkovo School is situated within the new Modern Innovation Centre of Russia. The centre is designed to help innovative technology development in Russia and the school is an educational complex that includes preschool, school and further education catering for children and students aged 0 to 18. Notable features of "School Skolkovo" include an individualized system of the educational process at all levels, a standards based education, and an educational environment enriched with information and communication technologies. The school takes advantage of the best teaching experience of the USA, UK, Sweden, Norway, Holland, Russia and other countries. Gregory will demonstrate how this model improves pedagogy and learning and will relate the contribution that ORT makes to this process.



Aliza Weingarten, Biology Teacher, Neshar Junior High School, Israel

Aliza Weingarten has been working as a Biology teacher for the last 22 years in Neshar Junior High school. She has a BA in Biology and an MA in science Education. As coordinator of science studies, Aliza instructs the pupils through the highest levels of science education and guides them while they develop projects independently. She also serves as the school's seventh grade coordinator, responsible for ensuring pupils attain their personal potential. Neshar High school is the only high-school in the city of Neshar and most of the city's high-school pupils study there. Aliza's greatest challenge is to engage with and provide for the each student's personal education needs at every level of this wide spectrum. Aliza is responsible for some of the digital projects in school including the development of ICT Science lessons for all students at all levels, developing advanced laboratory classes using Nova computers, and guiding teachers and students in research using computers.



Dr. Ari Yares, Middle school Principal, Krieger Schechter Day School, Baltimore, USA

Ari Yares, Ph.D. is the Head of Middle School at Krieger Schechter Day School in Baltimore, MD. He earned his doctorate in school psychology at Temple University where he focused on assessment and school based consultation. He also holds a CAGS in School Administration and Supervision from Johns Hopkins University. Beyond supervision of the middle school, he chairs the crisis committee, supervises the school's Technology Department and website, chairs the school's accreditation process, and is guiding the school's foray into social media. Prior to working at KSDS, Dr. Yares was a school psychologist for the Anne Arundel County Public Schools, MD where he focused on working with the school district's positive behavioural support program. He facilitated his middle school's student support process, guiding a three-tier intervention system which incorporated functional behavioural assessments of increasing intensity for students with academic and behavioural problems.

Going Google: A Jewish Day School's Experience with Google Apps for Education

This presentation will explore the use of Google Apps for Education at Krieger Schechter Day School and how the school implemented this new tool. It will review the most commonly used components of Google Apps and how they support pedagogy and school administration at KSDS.



Dr Nir Yehudai, Technology Leader, Eynot Yarden Comprehensive School, Israel

Nir Yehudai completed his PhD in Middle Eastern History at the University of Haifa, Israel after years of agricultural work. Nir now works at the "Eynot Yarden" Comprehensive School where he is instrumental in the advancement of IT at the school. In this role he dictates the IT resources acquisition policy, leads training programmes for teachers and students, and champions the use of computers and distance learning in various fields of learning and activities. He proudly serves as the World ORT Representative Office in Israel contact at his school.



Avi Ziv, Projects Manager, World ORT Representative Office in Israel

Avi Ziv is head of the projects unit at World ORT Representative Office in Israel. He is responsible for managing the Smart classrooms projects and for planning and budget of the Excellence Centres project. Prior to working for World ORT Avi worked for 6 years in the Prime Minister's office in Israel and has held a senior positions as CEO of a Rav Barich subsidiary company. Avi has a BA in Business Management.



World ORT Administrative offices:

126 Albert Street, London NW1 7NE

www.ort.org

World ORT Headquarters: 1 rue de Varembe, 1211 Geneva 20, Switzerland