HHC 2008 Speaker Backgrounds – V2 (10 total 080919)

Pavneet **Arora** - The HP50g in Construction Estimation and Design.
Pavneet got his first introduction to HP calculators when Mr. Keen, his high school electronics teacher, handed him one of the school's HP-35s along with the article "Enter vs. =" with the instructions to learn it. Learn it he did. Moreover, he fell in love with its elegance. Since then he has sought out only those careers that allow him to use an HP calculator daily. He began as a signal processing engineer, worked in a museum, started a software company, was a stock broker, and now has his own design-build firm in Canada. He is advocating that HP introduce a calculator targeted at the construction industry so that this streak goes unbroken.

Walter **Bonin** – Imagine. Opportunities For RPN Scientifics Evolution.
Touching a HP 35 for the first time 35 years ago in a summer job, Walter owned his first programmable pocket calculator while studying physics a few years later. After finishing his Ph.D., he has worked in Test automation, Scales, Sensors, Household appliances and Needle industry in various responsibilities from R&D to Quality Management. He also enjoys volleyball, mountain biking (he is the author of a little book about bicycle gearing), skiing, watching old biplanes and very (!) old architecture, gardening and reading in the sun.

Felix **Gross** – Patent documents: Looking for the History and Future of Calculators, Calculator Literature.
Felix was born in 1964 in Hamburg. During his high school years an uncle exposed him to programming HP's and to PPC (Thanks, Christian!). Using an HP 29 and an HP 41CV he got a lot of astronomy results out of those machines. As a side effect those machines were extremely helpful in getting chemical engineering degrees from Aachen, Germany and Zurich, Switzerland. The HHC2005 kindled his interest in the HP 49G+ so he took up astronomy problems again. Being a patent attorney he even found a way to use a HP 50 in court rooms by writing a program for German attorney's fee tables.

Wlodek A C **Mier-Jedrzejowicz** – Could Einstein have used one?
Wlodek's first encounter with an HP calculator was in the spectroscopy group of Imperial College in London, where he was studying Physics. The group used HP-35 calculators as soon as they became available and Wlodek was hooked, both by their power, and by the fact that they used something called Reverse Polish Notation. He used an HP-25 instead of a computer to complete his PhD, then acquired an HP-41CV, joined PPC, became a founder member of the British HP calculator group HPCC, and began writing books about HP calculators. He still does not know where this is all leading to, but is happy to continue to use HP calculators for Physics calculations, and to talk about this.

Andreas **Moeller** - Multi Lingual Pack
Born in the northern part of Germany my first encounter with a HP calculator was in High School during the mid eighties given to me by my uncle who is a HVAC - Engineer / Plumbing Engineer. Although coming from a family of engineers I decided to study economics and continued using HP calculators during my studies. So while getting more familiar with them I started to program them.

The result of this are the Multi Lingual Packs which completely translate the HP 50G into any desired language, currently into German, Italian, Spanish and French. Included in the packs is the TreeBrowser which easily allows the creation of collections of formulas and two example data sets, one containing over 300 technical equations and one containing over 140 of the most common formulas of economics. Unfortunately I can not enjoy handling a HP calculator as much as I would like in every day usage as I

currently work as an SAP-Consulter for the real estate business, mostly for big customers like insurances, banks, apartment cooperatives etc.

Richard J. **Nelson** – StreamSmart 400 Applications
A recently retired EE turned Technical Writer, Richard Nelson has worked in Biomedical implants, Consumer electronics, Publishing, Applications engineering, Aerospace maintenance engineering, and Electronics teaching. Founder of the HP-65 user's Club, PPC, and CHHU, Richard has been actively working with HP Calculators and their users for 36 years. Richard started the HHC Conferences in September 1979 and also enjoys electronics, macro/micro photography, designing educational equipment, and testing electronic circuits.

Mike **O'Shea** – HP-97 emulator
In the course of nearly 25 years as an IT professional, Michael O'Shea has worked in industries ranging from aerospace to the financial sector. Never content to focus on any single interest, he can be found flying airplanes, developing software for vintage computing devices, playing with PIC microcontrollers, practicing Tae Kwon Do, or working towards a graduate degree in applied mathematics.

Charlie **Patton** – Evolution Of Dynamic Geometry Software
Charles M. Patton is a mathematician and Principal Scientist at the Center for Technology in Learning (CTL) of SRI International. For the past two decades, Dr. Patton has been at the forefront of research in technology augmentations for teaching, learning, and understanding – especially, but not exclusively, in mathematics. At HP, Dr. Patton pioneered the concept of hand-held symbolic/graphical/numeric computation and co-authored a NSF-sponsored calculus reform text series widely used in AP Calculus. It was as technical lead of a 3-year HP innovation capacity building initiative in Singapore that he became acutely aware of, and deeply interested in, the complex dynamical interplay of ICT, education, and economic development. At SRI, Dr. Patton has continued both the technology augmentation strand of research and the efforts to understand and engineer the alignment of ICT, learning, and growth. He is currently leading a joint initiative between SRI ("the soul of Silicon Valley innovation") and Singapore's National Institute of Education ("world leaders in mathematics curricular coherence") that encompasses both strands.

Dr. Patton has, to date, generated eighteen current and pending technology patents. From key enabling technology for wall-size (or larger) displays, to ownership mechanisms for part physical, part virtual devices, to math interfaces that provide all available freedoms (and no errors), to nano-scale imaging technology, all of Dr. Patton's inventions have drawn on key understandings of dynamical systems, mathematical foundations, and knowledge needs. Dr. Patton's latest invention is the GroupScribbles technology, available at groupscribbles.sri.com.

Charles received a Ph.D. in mathematics from SUNY Stony Brook, the first American Mathematical Society Post-doctoral Research Fellowship, and membership at the Institute for Advanced Study in Princeton.

Jake **Schwartz** - Improving Keystroke Efficiency in HP's Recent Business Calculators
Jake Schwartz saw his first HP calculator (the HP9810 desktop) in the fall of 1971 while at an undergrad-school co-opjob at RCA in Camden, New Jersey and was hooked. He shared the purchase of an HP35 with his dad the following year and has remained interested in HP handhelds ever since. Jake joined the PPC club in January, 1977 and became active in the group, co-founding the Philadelphia Area HP PPC Chapter in 1978 and attending almost every calculator conference from 1979 onward. He participated in the PPC ROM project in 1980 as the HP41 Peripheral Routines coordinator and continues to work with and enjoy HP machines today.

<u>Namir **Shammas**</u> – New Root-Seeking algorithms, Shammas Polynominals

Namir Shammas graduated with a B.Sc. in chemical engineering from the University of Baghdad and an M.Sc. in chemical engineering from the University of Michigan, Ann Arbor. After working for a few years in the field of water treatment, Namir switched to writing articles, columns, and then books about programming languages, algorithms, and Windows programming. He wrote and co-wrote 70 books over 15 years. After working in the corporate world for a few years, Namir is back into consulting since 2004.

A former member of PPC, Namir is a big fan of the vintage HP calculators and has contributed numerous HP-41C programs to the HP User's Library in Corvallis. Namir is also a programming language "junkie" having used various dialects of BASIC, Visual Basic, VBA BASIC, Pascal, C++, Modula-2, Matlab, and R, to name a few. He greatly enjoys delving into algorithms for data structures, numerical analysis, and statistical calculations.