

HHC2025 At Orlando Florida: Report V2a

Richard J. Nelson

Introduction

For HHC 2025 we returned to the same hotel that we used for HHC 2023. It had been remodeled and looked quite different. And, of course the management had changed. The Conference room, however, was pretty much the same. We have several unusual “needs” for the Conference and two of them are being able to:

- (1) have access on Friday, even if late after a previous event, because our set up time is substantial.
- (2) being able to use the Conference room on an extended hours basis. This is a vital aspect of a busy and full Conference.

The latter (2) requirement was “tested” when I scheduled speakers to end at 11 PM on Saturday. This was a “problem” with the hotel management. We “adjusted” and the staff on duty at the “new” (9:45 PM) “end” time didn’t turn off the lights. All is well that ends well. Every hotel is different and every “at-the-time-involved” staff is what governs our hotel choice.

Mark Ringrose, an attendee from the UK, agreed to tally the various questions I asked during the Conference. Here is his excellent report.

Thank you to you and the committee for organizing the HHC 2025 conference. I was very happy to take notes of the poll questions you put to the attendees during the conference. Below are the questions and the numbers of respondents to the questions you asked. *RJN: The questions were impromptu – i.e. no planned purpose. This is a new perspective. I have done this informally for planning purposes, but I think we should formalize this for future Conferences.*

Q1 Who is attending an HHC conference for the 1st time?

Response: for 6 attendees, this is their first conference. *RJN: This is nearly 15% of attendees.*

Q2: Of those here, Who is not on the conference list

Response: None. All attendees are on the conference list. *RJN: This is great news as the list is the best way to disseminate the latest news.*

Q3: How many of the attendees are (or were) engineers?

Response: 8 of the attendees are (or were) engineers.

Q4: How many of the attendees use Windows 11?

Response: 16 attendees use Windows 11.

Q5: How many attendees are using Windows 11 because they are forced to?

Response: 18 use Windows 11 because they have to. More hands went up when the question of Windows 11 use was asked!

Q6: Who has not heard of Jim Carter?

Response: 6 attendees do/did not know who Jim Cater is/was. *RJN: Jim Carter was the Owner of EduCALC. One of his partners was George McCarty, the author of Calculator Calculus which is a topic of David Hayden’s presentation on his new book Calculator Calculus Companion.*

Q7: Who has not heard of EduCALC?

Response: None. i.e. All attendees have heard of EduCALC. *RJN: I worked for EduCALC as its Technical Support/New Products Manager from April 1987 to January 1998 when Jim was forced to leave the business because his office manager embezzled over a quarter million dollars from the business. She went to California prison for her crime and EduCALC could not financially continue.*

Q8: Who amongst the attendees does not have a Digital Multimeter (DMM)?

Response: 3 attendees do not have a Digital Multimeter. *RJN: This was my presentation-related question.*

Q9: Do all attendees know what a forward biased diode is?

Response: None. I am not sure that all attendees heard the question *RJN: This was another presentation-related question during my DMM presentation.*

Q10: Do all attendees know the difference between a current operating device and a voltage operating device?

Response: 5 attendees do not know the difference between these two devices. *RJN: This is surprising and I suspect that very few actually know or can explain the difference*

Q11: (Sunday): Who does not know what an EDC is?

Response: 8 to 10 attendees responded in they did not know what an EDC is.

(It was explained only afterwards that an EDC is an acronym for Every Day Carry, meaning an essential item/tool that you carry with you every day.). *RJN: The internet has a large community of EDC people who share the best methods/designs for light weight and multipurpose designs. My contribution is being able to carry a 1/2" cubic NIB magnet with a no external field using a clever small holder.*

The attendees

Below is our group photo with each attendee identified. We were not able to get everyone. Each year we always seem to have one person "missing". This year it is Nicole Jordan.

HHC 2025



- | | | | | | |
|-------------------|----------------------|-----------------------|----------------------|------------------------------|-----------------|
| 1. Jake Schwartz | 9. Jon Templin | 17. Richard Nelson | 25. Bruce Horrocks | 33. Wlodek Mier-Jedrzejewicz | 41. Gene Wright |
| 2. Jim Wild | 10. Deb Elliot | 18. Raymond Nimberger | 26. Jonathan Cameron | 34. Namir Shammas | |
| 3. Scottie Hall | 11. Gary Carter | 19. Eric Rechlin | 27. Steve Keifling | 35. Mark Ringrose | |
| 4. David Heyden | 12. Jim Johnson | 20. Brian Walsh | 28. Eddie Shore | 36. Sven Wierczoch | |
| 5. John Mohn | 13. Richard Schwartz | 21. Roger Hill | 29. Radim Frydrych | 37. Torsten Wierczoch | |
| 6. John Doran | 14. Paula Horrocks | 22. Steve Thomas | 30. Bob Prosperi | 38. Eric James | |
| 7. Eric Smith | 15. Felix Gross | 23. David Ramsey | 31. Thomas Striegel | 39. Jan Wierczoch | |
| 8. Charles McCord | 16. Brad Barton | 24. Mary Boetcher | 32. Alan Striegel | 40. Craig Bladow | |

Evaluating the conference

Because we follow a specific procedure/process for every Conference it tends to be similar year to year. One method of evaluation is to ask first time attendees. Bob and I asked one such attendee what he thought about the Conference after it was over. I verified my memory with Bob and the answer was: I am a fairly smart person, but I have never been in a room full of very smart people. He followed with, and all of these people were so friendly.

I have always experienced this and I often encourage new people to take advantage of this situation to learn and solve their own problems because this is the basic philosophy of the group since its founding in June 1974. And there is always the opportunity to email each attendee during the next year. Many of us have been close friends for several decades.

Another method to evaluate the Conference is to observe the Museum website. The primary comments and threads were related to the Programming Contest which is always popular topic. The second major topic was Moravia's discussion of the HP-16C CE. See video # 6.

The conclusion is that this was another successful Conference with our objectives fully met.

Presentations

We had a total of 20 speaker presentations. See the schedule, links to videos, and presentations on the HHC website for more details. There are additional time slots for other activities.

I scheduled 45 minutes for each presentation. This really used up our "extra" Saturday evening time. This fixed time slot approach makes it much easier to schedule, and make last minute swapping of the presentations. The approach of accepting all presentations and adding additional presentations "on-the-fly" is another operational guideline that we follow for HHCs. All but one this year was calculator related. This is a good indicator that there is still a lot happening in calculators, and that HP is not (yet?) leading the industry with new ideas and products.

HHC 2025 USB drive

Eric Rechlin once again did the herculean task of preparing the Conference USB drives with the same enthusiasm and dedication he has demonstrated with all of his tremendous projects. We are still using the 512 GB size. This size has not come down in price at the rate such drives have in the past. This is half a Tera Byte! Based on most past experience he often provides more drives for non-attendees than attendees for a given HHC. This also generates revenue for the HHC backup fund. See the details in the HHC 2025 Finances section.

When we first started with the current USB drive practice there was a debate about the usefulness (and cost/usefulness) of such a drive. One argument was that the cost wasn't worth the effort because the vast majority of the information is free on the internet. I believe that the interest and success of this approach of "providing the most extensive HP calculator information possible in your hand" is very useful.

Some of the historical information is no longer found on the internet, but is preserved on the USB drive. Besides, the internet is bloated with so much duplication that navigating it is very time consuming. The HHC USB drive is a significant improvement in efficiency and usefulness. With the latest HHC 2025 USB drive you have it all, and it is getting ever better and more complete. As of this writing Eric has sold 11 drives, five outside of the US.

There is a technical issue with copying the HHC USB drive. Most PC systems cannot "just make a copy." See my comments in the Introduction to HHC 2023, [page 2](#) at:

https://hhuc.us/2023/HHC%202023%20Introduction_s.pdf

Conference videos

Eric has once again video recorded every session. They are listed below in the order of their presentation. Some of the text may be reduced in order to conserve space. Eric should have all of them uploaded by the end of October. I especially appreciate the videos because I am running around during the Conference and

I am not always able to pay close attention during the presentations. Eric's system and techniques improve with each year. Many thanks Eric.

Saturday October 27, 2025

1. Introductions - **Richard Nelson, Gene Wright, Bob Prosperi** (61:41) <https://www.youtube.com/watch?v=qICO3puUWdE>
2. What's New on the HHC 2025 USB Drive - **Eric Rechlin** (22:35) <https://www.youtube.com/watch?v=mYJZiOfXkc>
3. Is the HP-71B Still Relevant? - **Wlodek Mier-Jedrzejowicz** (28:40) <https://www.youtube.com/watch?v=DolxuSpqmW8>
4. What's New in the PPC Archive (v2.47) since HHC 2024 - **Jake Schwartz** (19:21) <https://www.youtube.com/watch?v=ojNeS7BSdfk>
5. The db48X/db50x — An Introduction - **Jake Schwartz** (22:37) <https://www.youtube.com/watch?v=eH2bX6mq8uA>
6. Moravia/HP Product Update - **Radim Frydrych** (34:07) <https://www.youtube.com/watch?v=vwgQu2s7rxY>
7. The RPN Journey Continues (C47/R47 Updates) - **Gary Carter** (29:30) <https://www.youtube.com/watch?v=0qEUHxavbng>
8. TI Calculators after the TI-88 (TI-66, CC-40, TI-74, TI-95) - **Gene Wright** (27:36) <https://www.youtube.com/watch?v=ynZKSdGjj8E>
9. Math Dancing - **Gene Wright** (03:28) <https://www.youtube.com/watch?v=mURGXOXMI1U>
10. Exploring the DMM - **Richard Nelson** (51:12) <https://www.youtube.com/watch?v=KLjwHqimBw>
11. Woodstock Rebirth (Teenix's PC Board Replacement for the HP-21, HP-22, HP-25C, HP-27, and HP-29C) – **Jim Johnson** (31:33) https://www.youtube.com/watch?v=sAY_8Yh68qU
12. Scalable Reptoids from the Outer Reaches (Nonpareil II Updates) - **Eric Smith** (17:20) <https://www.youtube.com/watch?v=eraikEonaJQ>
13. Construction Calculators - **Chuck McCord** (29:42) <https://www.youtube.com/watch?v=VJkj7wHqjwI>
14. Video Game and Calculator History Preservation - **Chuck McCord** (34:07) <https://www.youtube.com/watch?v=6tKUj1NLoWk>
15. Creating Calculator Calculus Companion - **David Hayden** (36:36) <https://www.youtube.com/watch?v=SjphMEkgn9s>

Sunday October 28, 2025

16. Recreating the Classic Battery Pack - **David Ramsey** (20:15) <https://www.youtube.com/watch?v=qro4M4zddSc>
RJN note: David also 3D prints various items – often calculator stands - and these were available on the “FREE” prize table.
17. TULIP4041 — The Next Chapter (The Ultimate Intelligent Peripheral for the HP-41) - **Bob Prosperi** (70:59) <https://www.youtube.com/watch?v=4R3ebXHAJd4>
18. A “New” Random Number Generator - **Richard Schwartz** (16:34) https://www.youtube.com/watch?v=cbyuMxK5_PU
RJN: I will bet a lunch that this was new and a surprise to everyone.
19. (More) Random Number Generators for Calculators - **Namir Shammam** (17:32) <https://www.youtube.com/watch?v=dLFbaRhUDsc>
RJN: I will also bet a lunch that our HHCs are a very rich resource for the description and testing of PRNGs.
20. The Next Prime - **Richard Schwartz** (31:18) <https://www.youtube.com/watch?v=ndo99PIPAP0>
21. Prime Bookie - **Raymond Nirnberger** (16:31) <https://www.youtube.com/watch?v=8R1w2aZS87w>
22. Photographing Calculators on a Budget - **Alan Striegel** (67:18) <https://www.youtube.com/watch?v=jYYdZc7L8Oc>
RJN: Alan's presentation was voted as best speaker. This is his second HHC.
23. Contest Prize Winners - **David Ramsey, Richard Nelson** (08:06) <https://www.youtube.com/watch?v=OKEZi399Rgc>

New Calculator related book

Unlike the early HHC days new calculator related books are now unusual. Felix Gross's Bibliography shows a plot that has a calculator literature peak at about the year 2000.

David Hayden wrote a new book titled Calculator Calculus Companion – CCC vs CC for Calculator Calculus. See his presentation in video #14. In his video he describes his journey from writing, printing, and binding the book as a DIY project. I knew George and you may hear my George McCarty comments in the video.

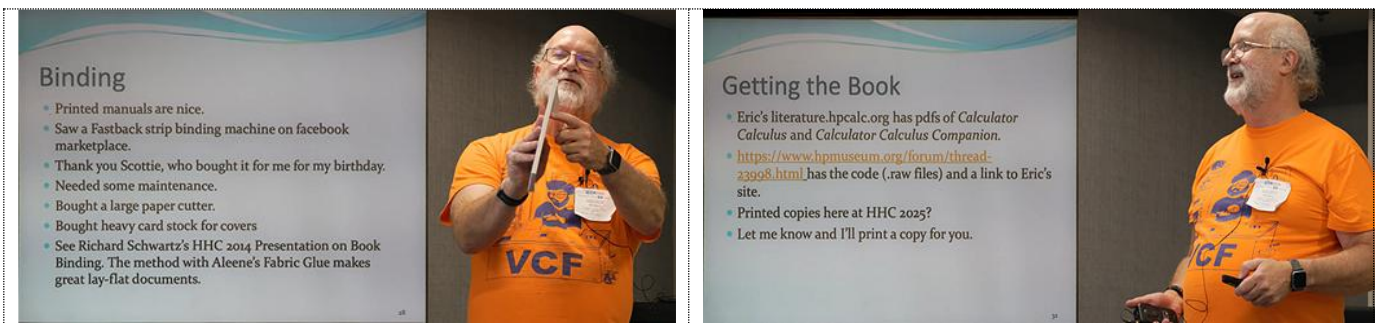


Fig. 1- #14 video screen capture of the binding method.

Fig. 2 - How to obtain the book. We do want more.

HHC 2025 Photos

Here are a few HHC 2025 photos by Jake Schwartz unless noted otherwise. They are in no specific order. He says we haven't seen him (Fig. 3) for ten years.



Fig. 3 - Wlodek shows a "new" miniature Calculator.

Fig. 4 - Calculators presented from a different perspective.

Picking from the many photos which ones to include is always difficult.



Fig. 5 – Voted Best speaker Alan Striegel.

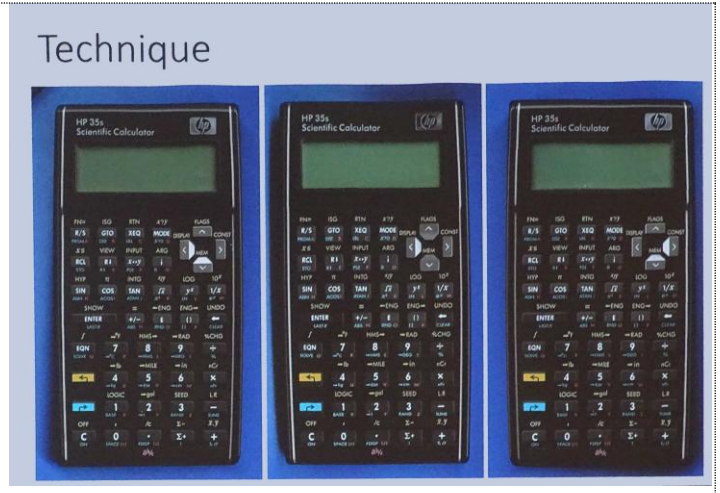


Fig. 6 – One of Alan's photo example slides.



Fig. 7 – Nicole Jordan giving her presentation.



Fig. 8 - Nicole's contact information.



Fig. 9 – An HHC group having dinner on Friday night.

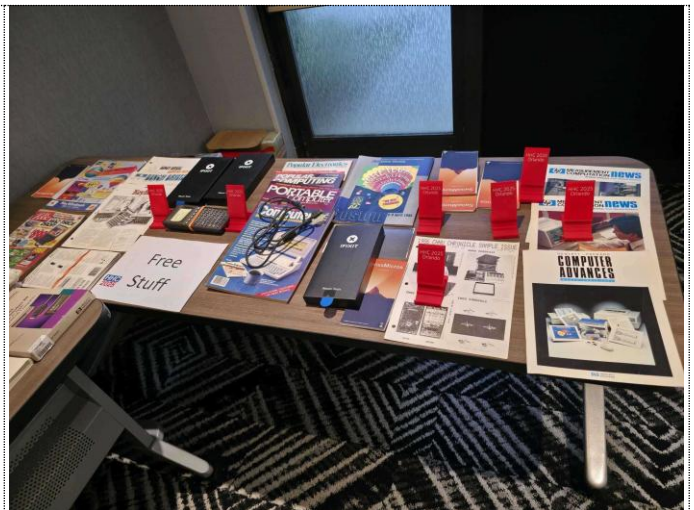


Fig. 10 - The table of some of the free stuff.

I liked the red calculator 3D printed stand by David Ramsey. It has a new sliding panel so that a smaller and faster printing piece may be added to the finished stand to designate the year.

Contest winners

Best Speaker: On Sunday afternoon we finish with awards and contest winners. A **best speaker** vote is taken and this year it was **Alan Striegel** from Novelty OH. He selected the Spot Welder. The best Speaker gets first pick from the normal prize table.

One **RPN Programming contest** was held. Gene Wright could not be present on Sunday and David Ramsey accepted the four entries and judged the Contest. The judging was quite spirited and the at first thought winner was changed. **Roger Hill won** the award and he picked an HP-42S from the prize table.

Prizes

Our door prizes are selected by randomly drawing the attendee numbers (by the blue ticket). They were substantial - as has been the case for all of the recent conferences. The prizes come from the attendees and non-attendees. See Table 1 for these prizes. The drawing is done as the penultimate activity of the Conference. Every attendee had at least three chances to pick from the regular prize table. Since some prizes were “bundles” you could possibly go home with more than three calculators. I declined any prizes after getting a new DMM (the no longer available Neoteck EBTN LCD 9999 count DMM). I didn’t think to give my ticket to someone else – my bad.

Premium prizes

The Committee selected 14 prizes that are drawn last. Every attendee gets an equal chance for these. The Committee picks special prizes to be held as Premium Prizes for their dollar value, historical value, collector’s value, or just being the latest model available. SwissMicros was very generous again this year donating four new DM machines. Table 2 shows the premium 14 prizes and their winners.

Table 1 – Non-attendee Prize Donations

Donor	Donation
Dan Croft	HPI SWAG ¹
Moravia	Assorted calculators & manuals
Jeremy Smith	Various items from his collection ²
Peter Murphy	Assorted calculators & manuals
Bruce Gordon	Assorted calculators & manuals
Adam Jones	Rare items from his stock

¹ *SWAG – Stuff We All Get.*

² *Jeremy sent Bob a large box several years ago and Bob puts a few of them on the prize table each year. Thank you, Jeremy.*

Table 2 - Premium Prize Winner List

Prize	Winner	Prize	Winner	Prize	Winner
DM41L	Eric Rechlin	Tulup4041	Gary Carter	HP-67 Bundle	Edward Shore
DM42	David Ramsey	HP-35S	John Doran	HP-100LX	Jonathan Cameron
DM15C	Deb Elliot	HP-71B	Mary Boetcher	HP-71B	Torsten Wierczoch
DM11	Charles McCord	HP-48GX Bundle	Steve Keifling	Keyboard	Jan Wierczoch
HP-15C CE	Roger Hill	HP-48SX	Paula Horrocks		

Everyone who went to the prize table also picked a SWAG item. We also had a couple of Committee members clear out their drawers and “donated” their older (i.e. smaller sizes) USB drives. Everyone got to

pick one of these if interested. Many of mine were from CES and I left CES materials on them in case there is an interest.

HHC 2025 finances.

We collected \$100 from 40 attendees (one was a “guest”) for 2025 which is \$4,000 income.

The hotel Conference room and Video Camera rental was \$1,416.46.

The food, and office supply 2025 costs were \$1,477.98. Some of these were paid using the account debit card.

The USB drives were \$1,804.00. \$1,000 was given to Eric towards the USB drives¹.

The 2025 “income” after (partial) expenses is \$105.56.

This brings the HHC WFB account balance to \$5,980.41 for 2026.

¹ The USB drive costs and income from drives sold after the conference will be balanced in the future. The \$1,000 given to Eric at the Conference was to reduce the amount that he had to personally carry for the drives. At some point his drive income will surpass what we owe him. At that time (probably next year) our funds available hopefully will grow a small amount.

HHC 2026

At the end of each HHC we discuss the issues related to holding another Conference. This is vital because the group as a whole is required to conduct these Conferences. While the HHC Committee does the majority of the work each attendee does what he or she can to help out with everything from Conference room clean up to hotel and city location.

The conference dates are based on decades of experience as starting with the weekends after the 15th of September, with various holidays (esp. religious, etc.) considered for the dates. Below are the dates suggested for HHC 2026. I find it easier to remember by the weekend number.

September 26 & 27, 4th. Weekend. October 17 & 18, 3rd Weekend. October 24 & 25. 4th Weekend.

The reason we need at least three dates is that when the hotel is finally selected, we have to fit their availability.

The location is also discussed with a “point” person to investigate a specific hotel. Table 3 shows the possibles in no particular order. Hotel policies have greatly changed since COVID 19 allowed companies everywhere to make changes they hesitated in making previously. Supplying our own food and snacks and having an extended full day usage of the Conference room are the major “sticky” points.

Another Committee consideration is the overall cost, especially the Room Rates, the Conference Room Rate, and the travel costs. It is the total of the costs that is considered. An additional large distance from the airport to the hotel requiring an additional “shuttle” expense is to be avoided if possible.

Monte was not present and I don’t remember who mentioned him.

Sacramento is also new, but David is very HHC experienced and I am sure he could make that happen if he is willing to take that on. He has confirmed that he will do either if needed. What does Sacramento offer for extra Conference activities? The only time I visited was with Fr. Joseph for a special HP new machine teacher training seminar.

The passport issue for Vancouver is another “new” venture for most of us so I am concerned about the various issues involved with this. Eric James is new to HHC, but the real requirement is the time to check on the hotel details. Perhaps Geoff and Eric could combine forces.

The Committee usually “rests” for a few months before thinking about another HHC so active discussions begin at about March 2026. I have observed that the desired/expected location for the Conference has NEVER actually occurred - for the last few (5+?) years. There are too many variables involved. We have a list of requirements we can supply.

Table 3 – HHC 2026 Possible Location Considerations

#	City	Coordinator	Comments
1	Nashville TN	Gene Wright	Previously: 2024, 22, 21,17,15, & 2012
2	Orlando FL	Stephen Thomas	Previously: 2023, 2025
3	Reno NV	David Ramsey	Previously: 2019, 2014
4	Sacramento CA	David Ramsey	None
5	Vancouver, BC	Geoff Quickfall Eric James (new)	None, Passports required
6	San Jose ?? guess	Monte Dalrymple	Previously: 2018

Observations and Conclusions

It is clear that HHC 2025 was another successful Conference meeting our goals to have fun and document calculator suppliers and user community’s work for the year. Looking back over the years we have seriously originally contributed to various topics. One example of the topics is that of calculator pseudo random number generators. The extensive testing and serious evaluation of these programs is well covered in previous HHCs. And this year we again added to the art.

I am reminded of the ways of the past while looking at the proceedings of HHC 2009 which happened to be on my desk. This copy had #60 so I must have printed at least 60 copies. The paper was heavier than normal and glossy. The many black and white images were crisp and clear. On average there were more than four images per page on 32 pages with 14 speaker papers described. This number is only 44% of what we had for this Conference. The idea back then was to prepare a paper and present it. Today most presenters just have a Power Point presentation. We also video each presentation so that documents it better in some ways. The audience interaction is also included.

Many things have changed, and we continue on. This was our 47th year of HHCs. I want to especially thank the HHC 2025 Committee for all their dedication, support, and time-consuming work. The attendees also have the HHC spirit and we carry on with about 40 ± attendees over the last few years. This year we had just under one quarter (24%) attendees from outside the US. HPCC was well represented, and of course HHC Committee member Wlodek attended this year after a ten-year absence.

Now what we need is a master index of the topics presented for all of our HHC Conferences. Jake?

I hope to see you at HHC 2026, wherever it may be held.

Richard James Nelson for the HHC 2025 Committee.

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Richard