

Howie Turns 70

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Oh to be 60 Again!



Parallel Lives

I've known Howie for a long time. Howie was a postdoc at LBNL when I was a postdoc at SLAC. Then he headed off to Penn (with some of my things in his truck) when I headed off to the IAS.

Rejoined in 1990 when I came to UCSC. Howie had already been here for a while. He showed me the ropes and was a role model for me in so many ways. I can organize my thoughts, in part, along the lines used to evaluate UC faculty

I've always been impressed by Howie's work, his probing and pointed questions in seminars, his service to the particle physics community (all of those CERN yellow books). I am still mulling over the implications of his work on the Higgs mass in the MSSM. He is incredibly skillful and helped me on several occasions. I recall once struggling to do an integral. I did it numerically; Howie insisted, when I showed it to him, on doing it analytically. He did some amazing acrobatics. We had some notable competitors, who were amazed by his results.

At about the time I came to Santa Cruz, Howie, with Jack, Sally and Gordy, published *The Higgs Hunters Guide*. An important and influential book. Set a standard for my own, which I can't say I lived up to. As with everything Howie does, incredibly careful and articulate, with important insights relevant many years later for the LHC program.

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FRONTIERS IN PHYSICS

THE HIGGS HUNTER'S GUIDE

$$\begin{array}{c} \alpha \\ \swarrow \\ \text{H} \text{---} \\ \searrow \\ \alpha \end{array} \quad \frac{\tan \beta}{\cos \alpha} \left(1 - \sin^2 \theta_{12} \right) \sin (\alpha + \beta) - \frac{\tan \beta}{\sin \alpha} \cos \alpha$$

ADP

John F. Gunion
Howard E. Haber
Gordon Kane
Sally Dawson

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Howie is a meticulous teacher. I tend to be a bit sloppy, so I tried to straighten up a bit and follow Howie's example. We often taught for each other in graduate classes. This was always quite an experience.

I followed Howie's footsteps in playing a role in the graduate committee which manages the graduate program. I constantly sought Howie's guidance in questions of postdoc hiring, faculty hiring, letter writing... I tried to follow his example in other areas of service to the Campus and the Physics Community.

But there were other important ways in which Howie was a guide for me

- 1 geography of the campus, places to eat.
- 2 relationship with SLAC
- 3 welcoming my family, particularly my then young children, to the wonders of the City of Santa Cruz
- 4 Inspiring me with his biking. Never quite lived up to his standard, but pushed myself beyond what I might otherwise have done.



Howie as a Model in Retirement

So now we have headed into retirement together. Again, Howie is a role model:

- 1 Research – Howie remains active in research – very active. I am striving to be similarly active.
- 2 Book – I understand the supersymmetry textbook is nearly done. I am sure there will be twice as many errors as my book has on an average page. But also, once more, a model for my own activities in retirement.
- 3 Biking – Howie continues to do impressive rides. I've largely stepped back and do daily walks. Hardly comparable.
- 4 Teaching – Howie continues to work with grad students. But he is also teaching Physics 214. I am doing the first, but can't claim to be doing the second.

Happy Birthday Howie!!!

Wishing You Many More Years of Teaching, Research,
Service and Fun!

