

HI-TEC 2021 Virtual, Zoom Chat, Day 2 (Thur July 22)

- 03:18:11 HI-TEC: If you'd like to follow the transcript on another device, use this link: <https://recapd.com/w-F7YfWS>
- 03:19:27 jbgroves: Good morning from Richmond, TexasWharton County Junior College
- 03:19:32 Michael Lesiecki: Hello from Phoenix AZ
- 03:19:34 HI-TEC: When posting comments or questions in chat, send to "all attendees & panelists."
- 03:20:07 HI-TEC: Access On-Demand Sessions: <https://www.highimpact-tec.org/hitec2021-on-demand-sessions.php> (Available for 6 months)
- 03:20:07 Michael Lesiecki: My option is to send to Everyone
- 03:20:39 Rachael Bower: Hi Ken! :-)
- 03:21:24 Peter Kazarinoff: Greetings from Portland Community College in Portland, Oregon. Big shout out too all the Oregon folks today!
- 03:21:27 jbgroves: Aaron...If you see this...First Space Command...now this ...first graduating class...<https://taskandpurpose.com/news/air-force-special-reconnaissance-apprentice/>
- 03:21:34 Sheila Wilson: Good morning from Waco and Welcome to HI-TEC 2021 Virtual Day 2!
- 03:21:54 Cheryl Battista -Student Panelist, A B Tech: Hello from Asheville NC - AB Tech
- 03:22:43 Rachael Bower: Welcome to day two of HI-TEC 2021 Virtual!!
- 03:22:43 HI-TEC: Follow HI-TEC on Twitter: https://twitter.com/Hi_TEC - #highimpact2021
- 03:23:40 HI-TEC: Recordings of the live event will be sent to you when available.
- 03:24:03 Neda Habibi: Hello from Texas!
- 03:24:32 HI-TEC: When posting comments or questions in chat, send to "all attendees & panelists."
- 03:24:38 Terryll Bailey: Good morning from The Allison Group in Seattle Washington!
- 03:24:49 Marcella Gale: Hi hi hi from Lynchburg, VA
- 03:24:50 Maddie Witt: Hello from Chattanooga!
- 03:24:51 Tommy Henderson: GM from TCC- Tulsa, OK
- 03:25:07 Renee Blackshear: Good morning from TSTC!
- 03:25:15 Maddie Witt: Looking forward to another great day! Let's expand the reach of these valuable conversations by sharing key takeaways, stats, quotes, and more on Twitter using #HighImpact2021 @Hi_TEC
- 03:25:39 Pam Silvers: Greetings from Asheville , NC
- 03:25:57 Jacquelyn Blevins: Hi from Jacquie at Chesapeake College in Maryland!
- 03:26:02 Mary Slowinski: Good morning from Seattle!!
- 03:26:17 Sam Samanta: Hi Everyone - from www.flcc.edu/sst Rochester, NY Finger Lakes Region! Presenting on-demand session on Smart Mfg training. Sam.Samanta@flcc.edu
- 03:26:18 Mehrdad Faezi: Greetings Everyone from Connecticut! Stay Safe.
- 03:26:19 Elaine Johnson: Hi from San Francisco
- 03:26:22 TAMMY QUINEY: Hello from CUCWD, Greenville, SC. Looking forward to another great session!
- 03:26:24 Dave Carty: Howdy from South Arkansas CC

03:26:26 Benjamin Taylor: Good afternoon from Orlando!

03:26:48 Richard Grotegut: Good morning from San Jose California

03:27:26 Sheila Wilson: <https://www.highimpact-tec.org/hitec2021-on-demand-sessions>

03:28:14 Peter Kazarinoff: Please type your QUESTIONS for Jessica here in the chat. Make sure to send it To: All panelists and attendees^v so we can see it.

03:28:37 Judy Irwin: Good morning from Spokane, WA

03:28:56 Matthias Pleil: Hi Jessica! Thanks for presenting!

03:28:58 HI-TEC: If you'd like to follow the transcript on another device, use this link: <https://recapd.com/w-F7YfWS>

03:29:07 Jonathan Friedman: After missing the last 2 hours yesterday because of an internet outage, I am glad to be back. Hello everyone!

03:29:09 Jenny Brinker: Good morning from Green Bay, Wisconsin. :-)

03:29:16 Robert Ehrmann: Hello from State College, PA.

03:29:33 Sheila Wilson: If you'd like to follow the transcript on another device, use this link: <https://recapd.com/w-F7YfWS>

03:30:04 Paul Hansford: Hello and good morning from Dayton OH!

03:30:39 Osa Brand Osa: Nice to be back!

03:30:40 russ read: Greetings from Winston - Salem, NC!

03:30:55 HI-TEC: Follow HI-TEC on Twitter: https://twitter.com/HI_TEC - #highimpact2021

03:31:41 Robert Ehrmann: -

03:33:23 Robert Ehrmann: -

03:33:34 Laurie Miller McNeill: BOCES-Board of Cooperative Educational Services: <https://www.boces.org/>

03:34:06 HI-TEC: Access On-Demand Sessions: <https://www.highimpact-tec.org/hitec2021-on-demand-sessions> (Available for 6 months)

03:35:19 Matthias Pleil: MEMS = Micro Electro Mechanical Systems

03:37:17 Dave Carty: Suggest 'googling' Rogue Valley Microdevices impressive website

03:37:21 Emery DeWitt: Hello from South Carolina and Mentor-Connect

03:38:04 Matthias Pleil: MOEMS = Micro Optical Electro Mechanical Systems - Most used device is the DMD, the chip at the heart of digital projection in all theaters today

03:39:07 Jane Cothran: Hi from Trident Technical College, Charleston, SC

03:43:29 TJ McCue: good morning from Wyoming. visited a cool makerspace at UW Laramie as I make my way back west. so glad to tune into these talks.

03:45:45 jbgroves: Jessica...Any LiFi chips yet? Light Fidelity chips?

03:46:06 Peter Kazarinoff: Great question. I've got it on our list should time allow.

03:46:23 jbgroves: Do you do any work with MaxLinear?

03:46:53 Michael Lesiecki: Question for the keynote, in spite of quite a few efforts the % of women in Tech programs is often small. From your perspective is there a magic answer?

03:47:28 Peter Kazarinoff: Good question. It's on the list if we have time.

03:50:33 jbgroves: Follow-up...How do you recruit women to tech education and tech education?

03:50:53 jbgroves: ...Tech Jobs...

03:52:26 Peter Kazarinoff: Good follow up question. We've got it on our list, time depending.

03:56:54 jbgroves: COVID affected the hands on kids college technical programs such as robotic, rocketry, astronomy, electronics, and mathematical modeling...we got to get programs like these back ASAP...

03:59:08 Cheryl Battista -Student Panelist, A B Tech: Is the supply chain demand issue a result of a shortage of resources to produce microdevices? Or is it a matter of quantity of US manufacturers who produce microdevices?

04:00:37 Peter Kazarinoff: Good question. We'll see if the speaker can help given time.

04:01:22 Dave Carty: Tech Math v Comp II, and

04:02:20 Dave Carty: Pardon previous mis-post: Tech Math v College Algebra and Tech Writing v Comp II (or Eng II)

04:04:58 Elaine Craft: Great information and an amazing and inspiring story! Thanks for being with us at HI-TEC 2021!

04:05:50 Ann Beheler: We need about a million more Jessica role models!

04:06:47 Matthias Pleil: If you are interested in integrating Microsystems educational materials and participating in cleanroom professional development experience, feel free to reach out to me at mpleil@unm.edu, the <https://scme-support.org> and <https://mntesig.net> sites. Also, the new Micro Nano Tech ATE center, MNT-EC at <https://micronanotecheducation.org>

04:07:39 jbgroves: <https://academickids.com/encyclopedia/index.php/Semiconductor>

04:08:04 jbgroves: https://www.ducksters.com/science/physics/electrical_conductors_and_insulators.php

04:08:54 jbgroves: <https://www.sciencekids.co.nz/sciencefacts/chemistry/silicon.html>

04:10:33 jbgroves: <https://www.dol.gov/general/topic/training/apprenticeship>

04:10:46 Pam Silvers: Go North Carolina!!

04:11:06 Carmen Martínez-López: Jessica,thank you for your leadership and valuable contribution to HI-TEC 2021!You are a Latina colleague who is a giver and has a commitment to contribute to the growth of all individuals, no matter where they come from.

04:11:08 jbgroves: <https://www.apprenticeship.gov/employers/industry-recognized-apprenticeship-program>

04:11:29 BEI LIU: there is no sound

04:11:33 Laurie Miller McNeill: No sound

04:11:39 jbgroves: <https://www.apprenticeship.gov/employers/registered-apprenticeship-program>

04:11:41 Paul Hansford: No sound

04:11:44 Matthias Pleil: Need to share with sound?

04:11:45 Robert Ehrmann: NO Sound Jessica..

04:11:47 Michael Hacker: We're not hearing itl.

04:11:50 Paul Hansford: turn on CC

04:11:53 Mehrdad Faezi: You have to share using sound...

04:12:25 Richard Grotegut: Need to re-share with Sound enabled.

04:12:44 jbgroves: <https://www.careerexploration.com/apprenticeship-programs-by-state/>

04:13:13 jbgroves: >>>Texas...<https://www.twc.texas.gov/partners/apprenticeship-training-program-administrators-local-education-agencies>

04:13:16 patricia alfing: yay for NC apprenticeships!!!

04:13:40 HI-TEC: Link to Jessica's video: <https://www.youtube.com/watch?v=b9B1nwsxxKE>

04:14:26 jbgroves: <https://www.apprenticeship.gov/news-and-information>

04:15:07 jbgroves: The data...<https://www.dol.gov/agencies/eta/apprenticeship/about/statistics/2020>

04:15:51 Maddie Witt: What an inspiring keynote. Let's continue the conversation on Twitter using #HighImpact2021 @HI_TEC @lisamas1202

04:16:23 jbgroves:and here's the money...[https://gov.nv.gov/News/Press/2021/ICYMI__US_Department_of_Labor_awards_more_than_\\$130M_in_grants/](https://gov.nv.gov/News/Press/2021/ICYMI__US_Department_of_Labor_awards_more_than_$130M_in_grants/)

04:18:09 jbgroves: ...<https://www.jff.org/what-we-do/impact-stories/center-for-apprenticeship-and-work-based-learning/apprenticeship-transformation-passes-house-what-know/>

04:24:46 Tommy Henderson: Good Stuff!

04:24:47 Matthias Pleil: Awesome Talk!

04:24:52 jbgroves: Jessica Thanks You!

04:25:04 Mary Slowinski: Terrific talk, Jessica!

04:25:08 Cheryl Battista -Student Panelist, A B Tech: Thank you Mrs. Gomez for sharing your story & your dedication & inspiration

04:25:08 Patricia Maloney: Thank you

04:25:11 Robert Ehrmann: Fabulous !!!

04:25:22 Michael Lesiecki: thank you Jessica, we are inspired

04:25:26 Maddie Witt: Awesome insight, Jessica! Thank you!

04:25:36 Terryll Bailey: Great keynote--thank you!

04:25:57 Mehrdad Faezi: Thank you Jessica! Keep up the energy and the coop with the schools!

04:26:08 jbgroves: Excellent keynote!

04:35:54 Jack DeLong: Does anyone know of any Physics Lab simulation software that has randomized results? jdelong@iwcc.edu

04:36:34 Maddie Witt: Looking forward to hearing these students and educators unpack the best education practices used during the pandemic... let's expand the reach of this panel on Twitter using #HighImpact2021 @HI_TEC @Abtech_cc @biotech_careers @ShawUniversity @NCstatecollege @ForsythTechCC

04:39:55 Pam Silvers: LMS can be Canvass, Moodle, etc.

04:41:13 HI-TEC: When posting comments or questions in chat, send to "all attendees & panelists."

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04:43:49 Dave Carty: How address inequality in student remote connectivity: hardware, provider, software, device (computer) hygiene?

04:45:18 jbgroves: ...on the physics question posed...<https://www.merlot.org/merlot/Physics.htm>

04:45:45 Pam Silvers: Our campus had WIFI in the parking lot. Also local school buses became mobile hot spots

04:46:13 jbgroves: https://virtuallabs.merlot.org/vl_physics.html

04:47:15 jbgroves: ..more random...<http://www.physicslab.org/asp/practiceproblems/>

- 04:47:39 HI-TEC: Access On-Demand Sessions: <https://www.highimpact-tec.org/hitec2021-on-demand-sessions> (Available for 6 months)
- 04:48:51 jbgroves: <https://roqed.com/product-physics/>
- 04:48:55 Dave Carty: Some students have good computers, others, poor, or no computer. Also, some or no satellite or cable. Also cost of provider, antivirus, etc.
- 04:49:27 Peter Kazarinoff: QUESTION for the students: What practices that your college or instructors implemented during COVID do you think should be kept moving forward?
- 04:52:23 jbgroves: Comment...there needs to be a tech program within the schools for intern techs to serve the community for k-adult...maybe modeled after this...<https://www.uscyberpatriot.org/Pages/Special%20Initiatives/Tech-Caregiver-Program.aspx>
- 04:55:30 Pam Silvers: Instructors - What are students registering for in Fall semester. We find students still want on line classes
- 04:56:22 patricia alfing: Pam, I think it depends on the courses and the specific student, but yes, I'm finding more registering for the online only options (anatomy and physiology)
- 04:57:01 Cheryl Battista -Student Panelist, A B Tech: There are great LinkedIn InLearning courses on building a YouTube channel.
- 05:00:32 Michal Shuldman: Our online only classes filled before our hybrid classes. But, where there was an option to pick between the two modalities, then the majority of the hybrid students want to be in-person for lab.
- 05:01:55 jbgroves: 30+% of our students were not coming back until they could be on campus...
- 05:04:19 patricia alfing: we continued doing f2f this last year, but were limited on how many could come each class time, the rest were online. This meant that we didn't lose students (one of the few colleges to do this in our state)
- 05:06:16 Jonathan Friedman: I am looking forward to returning to face-to-face, which starts next month. We have a lot of students with difficulties connecting, their only online device is a phone, they maybe had to connect while at work, and other complications. Attendance was rarely above 70% for a given class.
- 05:07:48 jbgroves: .I had a 50% drop when we went from face-to-face in a PC hardware class even though I used LabSim TestOut labs...
- 05:08:21 patricia alfing: attendance definitely was different when they had the option to be online instead of in the classroom to get the lecture. Since we posted the recordings, less folks attended. I was doing more of the hyflex model because of the uncertainty of if we would still be in class
- 05:08:28 Anita Wright: Students appreciate being able to re- watch the lectures too
- 05:09:10 jbgroves: ...practice makes better...time to redo instead of a specific time to be there...
- 05:09:15 Anita Wright: Great point Cheryl - true for the faculty too
- 05:09:25 patricia alfing: Anita-yes that is true!
- 05:09:27 Jonathan Friedman: I used the LMS-recorded classes and gave student attendance credit on faith, if they reported having seen the videos. I also recorded short videos for specific examples, which I also posted on the LMS. I did not use my YouTube channel, but the university kind of discouraged using resources other than our LMS.
- 05:10:08 Gordon Snyder: This is a description of what I did in my classes <http://www.gordostuff.com/2021/02/nonverbal-overload-in-online.html>
- 05:10:24 Gordon Snyder: Title: Nonverbal Overload In An Online Engineering Classroom
- 05:10:49 jbgroves: ...Blackboard Collaborate Ultra...agree with Cheryl utilizing this system with my students...

- 05:11:21 Maddie Witt: Such a great panel! be sure to share your key takeaways, quotes, and more on Twitter using #highimpact2021 @HI_TEC
- 05:11:59 Gordon Snyder: Close-up eye contact is exhausting. Solution: Minimize the face sizes of attendees into grid view, and sit back a bit to allow yourself more personal space. Watching yourself is exhausting. Solution: Confirm that your lighting and setup look good, and then adjust the settings to hide your view of yourself. Sitting immobile is exhausting. Solution: Create a wider visual field for your camera. Video chatting is cognitively exhausting. Solution: When it's feasible, turn off your camera for breaks—and turn your body away from the screen.
- 05:12:56 Richard Quinnette: Instructors and teachers - Don't be afraid to record yourself live! I had live session at least once per week for my online and synchronous classes. I recorded these once I learned how to do it.
- 05:12:58 Anita Wright: I like your video idea for grading! Did you ever just "record" your voice without video?
- 05:14:00 Pam Silvers: My face is never on the video - it is my voice and the computer screen
- 05:14:35 Pam Silvers: I recorded my Zoom classes and shared them with students
- 05:14:41 Anita Wright: yes, that is how I work too - but I do spend a lot of time 'editing' my videos, did you "edit" your grading videos?
- 05:14:47 Jonathan Friedman: @Michael Lesiecki Thanks! So far so good :-)
- 05:15:15 Pam Silvers: My videos short - usually less than 5 minutes. So I can do retakes if needed
- 05:15:20 Michal Shuldman: What tools did people use for close captioning all these videos. We aren't allowed to post anything without close captions and they cannot be autogenerated captions.
- 05:15:57 Anita Wright: Upload to YouTube -- auto closed captioning. I record the screen using Camtasia
- 05:16:47 patricia alfing: @michal our school has vidgrid and it can autocaption. we can send out to somewhere else if absolutely necessary, OR do our own captions
- 05:16:51 jbgroves: The process we presenters did with Zoom and uploading our video and text to YouTube was a real eye opener for me...Thanks Sheila and Mike for teaching an old dog a new trick!
- 05:17:09 patricia alfing: vidgrid has truly been a life saver this past year and a half.
- 05:17:23 Pam Silvers: We also use VidGrid
- 05:17:37 Anita Wright: Is it free?
- 05:18:03 patricia alfing: I don't think so, but it's not overly expensive (or else our school wouldn't have it!) :)
- 05:18:07 Pam Silvers: No. There is a free version - Loom. It doesn't have all the features
- 05:19:12 patricia alfing: we were already working on the accessibility component and had already looked at all of the video recording fall 2019, so we had it set up to start summer 2020, just had to get it in earlier
- 05:19:17 Anita Wright: That is such a good idea - everyone's schedules were disrupted - give them a "breather" and/or catch up week :-) Thanks for that one!
- 05:19:35 Mark Dempsey: <https://support.loom.com/hc/en-us/articles/360006847737-How-to-use-Loom-for-Education>
- 05:19:55 Anita Wright: Thanks!
- 05:20:13 Mark Dempsey: It's tedious, but mostly painless.. we use the free CADET tool.
<http://ncamftp.wgbh.org/cadet/>
We typically take the YouTube-created captions and then polish them, then use CADET to create a new timed SRT file.
- 05:20:24 Mark Dempsey: I suspect some of these other suggestions may be better.

05:20:55 Sheila Wilson: The chat will be made available along with the recordings and the transcript.

05:21:04 patricia alfing: thanks Sheila!

05:22:04 Sheila Wilson: You're so welcome!

05:22:05 Paul Hansford: 60/40 -- face to face to a version of online (blended, CBE, etc)

05:22:34 Paul Hansford: I think I will experiment with Hyflex this fall with a belended designed course

05:22:38 Tommy Henderson: enrollments and feedback is down with lab intensive courses, blended help.

05:22:56 Dave Carty: Consideration: A number of "online universities" are starting up

05:24:05 Anita Wright: At our college, the online sections are filling better than F2F for Fall 21 (this surprised me a bit, as many students lamented not meeting in the class room)

05:24:22 Dave Carty: Cheryl - Would a video of how to 'handle the bones' before the hands-on lab started be useful?

05:25:27 Cheryl Battista -Student Panelist, A B Tech: Yes, I believe it would if the video involved AR (Augmented Reality)

05:25:40 Anita Wright: Another good video is a "course tour" of how you set up your online course (since we all have our own way). Helps the students acclimate to your style and requirements

05:25:55 Dave Carty: Yes AR is really developing. How can we make it less expensive?

05:25:59 Emily Quach: Will the recordings be emailed to attendees?

05:26:44 Cheryl Battista -Student Panelist, A B Tech: I'm not sure...maybe a kit students could buy like books but bones instead in the case of an anatomy course

05:27:12 Anita Wright: We are seeing the same thing Pam

05:27:15 patricia alfing: the hands-on kits are helpful, but sometimes add to the cost of the course

05:27:21 Dave Carty: Interesting - 3D printers could print bone kits

05:27:28 jbgroves: The course tour video idea is great <https://teaching.uncc.edu/teaching-guides/online-learning/how-create-student-welcome-and-course-tour-videos-your-canvas-course>

05:27:35 Pam Silvers: One problem with AR can be accessibility - some student live in rural areas with slow internet. You want to make sure everyone can access

05:27:45 Cheryl Battista -Student Panelist, A B Tech: The bone kits could also be rentals like book rentals

05:28:47 Lawrence Meyer: Reply.it - no environment install needed for programming

05:29:49 Cameron Schultz: I was just about to suggest some of the 3D resin printers could make excellent kits for reasonable prices.

05:30:23 Dave Carty: Students need the social contact with instructors - this became evident as my email and cell phone text msgs & phone calls increased substantially

05:31:21 Richard Quinnette: Canvas Conference and Google Voice were lifesavers.

05:31:25 Charles Sekafetz: Luckily we had transferred our landlines to cell service. Text messaging really helped for real time help to students.

05:32:02 Anita Wright: Quick Q. How large were your classes, faculty?

05:33:09 Dave Carty: The college transferred landlines to cell service?

05:33:16 patricia alfing: our bio classes were capped at 24 for each section, but we have lectures that meet together, so 48 in a lecture

05:33:54 patricia alfing: our classrooms would only hold half the number, so labs were halved, and we had to do a bit online labs

05:34:34 Dave Carty: The land line would fwd to cell phones?

05:35:27 jbgroves: We split the hands on sections...did one course labs two times a week...I'm sure other instructors did maybe four or more.

05:35:44 Charles Sekafetz: Yes. We have cell phones now, but when we are in our offices, they ring our desk phone instead.

05:35:54 jbgroves: ...social distancing requirements...

05:37:12 Dave Carty: Great panelists!! Students & faculty & moderator!!!

05:37:36 Jason Tucker: Please feel free to email me at jtucker@ncstatecollege.edu if folks have more questions or thoughts! I am also on LinkedIn.

05:37:49 patricia alfing: great panel!!!

05:37:52 Anita Wright: Awesome panel presentation -- thank you all so, so much.

05:38:00 jbgroves: Great panel and best practices examples...thank you!

05:38:04 russ read: great job!

05:38:06 Anita Wright: great moderator too ;-)

05:38:09 Dave Carty: Go Wolfpack!

05:38:14 Robert Ehrmann: Great job!

05:38:21 Randy Paulson: Thank you. Well organized and good information.

05:38:32 Richard Grotegut: Great panel! Thanks!

05:38:36 Rebecca Zarch: thanks so much- a great panel

05:38:37 Padmavathi Tangirala: Excellent discussion. Thank you!

05:38:37 Kathleen Alfano: Great job Mary! Great panel you put together.

05:38:41 Anita Wright: Goodbye all

05:38:44 Jenny Brinker: Excellent ideas. Thank you!

05:39:01 Chander Arora: Great Discussion!! Thank You!!

05:39:09 Maddie Witt: What a wonderful panel! Please continue this incredible conversation and expand the reach of the information shared on Twitter by tagging #HighImpact 2021 @HI_TEC Abtech_cc @biotech_careers @ShawUniversity @NCstatecollege @ForsythTechCC

05:39:11 Mehrdad Faezi: Great Panel and Discussions. Thank you.

05:39:12 Benjamin Taylor: Excellent conference. Thanks, ALL!

05:39:21 jbgroves: Rachael...Thank You!

05:39:37 Tommy Henderson: Thanks to HiTec

05:39:39 Robert Ehrmann: Great Job Rachel !!!

05:39:48 Jack DeLong: HAWAII!!!

05:39:50 jbgroves: Sheila...Thank You!

05:39:50 Hany Roufael: Thank YOU!

05:39:54 patricia alfing: yes jack!

05:39:55 Richard Grotegut: Keeping fingers crossed
05:39:57 patricia alfing: thanks everyone!
05:40:01 Jonathan Friedman: Thanks.
05:40:01 Mark Dempsey: Thanks
05:40:02 Cheryl Battista -Student Panelist, A B Tech: Thank you all
05:40:14 Judy Irwin: Thank you
05:40:15 jbgroves: Bye all...enjoy the on demand...thanks...
05:40:28 Caroline VanIngen-Dunn: Thank you from Tempe, AZ
05:40:39 Terryll Bailey: Thanks everyone!
05:40:46 Kathleen Alfano: Thanks for all your hard work Rachael!
05:42:20 Rachael Bower: Great to have all of you here - another terrific HI-TEC!!
05:42:49 Mary Slowinski: See you all next year!
05:43:34 Abraham Michelen: Great Hi-Tec, as usual!