SNEAK PREVIEW: TerraSonde Studio Toolbox

The magaz

the recording musician

# Acoustics Studio

Understand & Improve Your Sound

**Multitracking** In The Digital Age

Microtech Gefell M930

A Mic For All Reasons

Auralex Aural-Xpanders

Acoustic Tweaking Made Simple



THB COR830 BurniT PLUS

Ps Hear Back

Steinberg Nuendo 2



## Microtech

/ i e w

I first heard about Microtech Gefell microphones from the English guitarist John Renbourn. It was just after the Berlin Wall fell; he was in St. Louis for a concert, and told me about having bought o pair

for his home studio. "Exat German Neumons" he colledom. There's a fair description of the company's history for time flow the allown version, go to way gold mice.com] seeing Neumon founded his inciped not force you for a fair post and of the post of the gold of the condense microphones. The factory was bounded during Vorld Worl and the stuff and equipment moved to the small town of Grief, not for from Dessder, Albert for our Collemon you be him divided into occupation zones. Proceedings of the small town of Grief, not for from Dessder, Albert for the Company of the College of the Col

During those decades, the two companies evolved along parallel trans-there were formal and informal contacts between the two dempenies, despite the barriers of the Cold Warr, with the Berlin Woll went up in 1961. Both factories used the classic M7 capsule in the West German company, it must famously went into the UAT microphone); both, in the late 1960s and early 1970s, added FEF-based

ompainers to their time. And both newed to high standards.
As the Cold War came to its welcome end, recordists in the West
begon hearing about Gefell microphones, and they found a place
in many studios, both project and Downbown. With new business,
Microtech Gefell diversified its line; among its newest designs is the
M930. A few months ago, I received a pair for review.

#### .....

Opening the low
When I looked inside the nicely-made wooden box, I was surprised
at how small the M905s are I war nixed to believe large-disprisations small the M905s are I war nixed to believe large-disprisaint, 15% datasets 4 % long, including the connector bossing.
But they contain full-sized 125° machined capsules, Johng with
the contain full-sized 125° machined capsules, Johng with
them apart without acts of violence, as olided inspect the electrical
gats, but I can testify that the fit and finish are superb, with the
thity feet that begaves held-pulsary machining. The grift has clastilly feet that begaves held-pulsary machining. The grift has clas-

There are no switches; the M930 has but one pattern, cardioid, and there are no bass rolloffs or whichable pads, lts sister mit. He M940, is hypercardioid, The clip, a friction-fit device, is marked with angles so that it can be used for stereo recording with the Slay or TD93 stereo bars (see the sidebar). The male XLR connector at the bottom has gold contacts to minimize oxidation.

### e - M930From the mists of history, a historic microphone

#### Salt River

The mics arrived just before the them along and tried them out on some performers (a few of the regulars there don't like side-address quickly found that the sound on phonic guitar, banjo and mandolin) superb. They worked really well on clear soprano. Unusually for a cona problem-this was a stageful of mic-

I noticed, though, that they seemed across the portable stage, my footfalls and into the microphones, producing

come with shock mounts, the problem and I put the mic stands on the front the photo on the next page, you can see the collection of characters on val-that's me on the far right, in

When I got home, I asked Mike Metlay at Recording to query sitivity. Their reply was that this had Well, that's fair enough; I asked it sory shock mounts along, and they

REVIEW BY PAUL J. STAMLER On stage

Point, and chose it over the Beyer M260. Both sounded excellent, and remarkably similar considering the M260 is a ribbon, but she liked the

two members of this wonderful Andean band play some 40 instruments, from flutes and panpipes to shakers, small stringed armadillos, and during the performance, I found

#### review



and over. Particularly impressive was the performance on nylon-stringed guitar, which has a growl notoriously hard to reproduce accurately. The M930 made it seem essy.

I brought it to some gigs where clarinet white Paul Weeler was playing. He's a member of the St. Louis He's a member of the St. Louis with me in a couple of bands, and with a group called Reel Women. Stince Toul and a made bass player Stince Toul and a made bass player should be called "Sir-cred Women.") The results were simply astonishing, for the first time, Eud (who's notoritive than the simple still be a simple simple with all the warmth and detail of his playing intact. And when he switched to recorder or whistle, that came

So I split them up, moved the players as far apart as possible, and close-miked both instruments. The results, once again, were superb; I was worried about the guitar (a dreadnought) woofing out on me, but the bass frequencies were smooth and not at all boomy, providing, a subtle foundation without

becoming obtrusive.

Later during that session, as players began switching instruments, I compared the M930 to a KM 84 on two banjos. It was a tie; the KM 84 was slightly better on one instrument, while the M930 was slightly better on the other. You should know that the KM 84 is a classic banio mic coming

playing Venus Williams to a draw. In all of these applications, the small size of the M930 was an asset; it was easier to position them in exactly the right place without inconveniencing the musicians, and they were a lot less obtrusive than larger condenser (Thanks to my ukis, one and all: Cathy Barton, Chaskinakuy, Debra Cowan, Judy Domeny, Leela & Ellie Grace, Dave Para, the Upstart Crows and Paul Wexler. Boy, is it fun to listen to people like you for a living!)

#### Lab dogs

As always, my primary reference in the lab was the Shure SMBI, chosen because it's fairly common—almost everybody's used one at some point and because it's a fairly neutral microphone. If a microphone's brighter than an SMBI, it can fairly be called topight, and it's doubler than an SMBI, bright, and it's doubler than an SMBI, every one. The tried sounds exactly like every other one, and has the same sensitivity. Unless otherwise indicated, the SMBI's filters were switched

The M930 was about 10.5 dB more sensitive than the SM81, which means preamp noise will seldom be an issue. I set my (Project-r) preamp to compensate for the difference.



Paul was audibly impressed; after the first gig, he said it was like this microphone was in a whole different class from everything else I'd tried on him. That spoke volumes, if you'll pardon the expression, since I'd aimed some darned good mics in his direction, including a Neumann KM 84.

Finally, I Tried the M930s in a recording session for the Upstart Crows, which I have described elsewer. (Thing at Plot for the Upstart Crows, which I have described elsewer. (Thing at Plot for the Upstart Crows, which I have described by the Upstart Crows, and the Upstart Crows and Single crossed pair. The found thought was to use the stereo bar and the Upstart and the banjo-tike on a single crossed pair. The found that load in recording acoustic music. Well, it didn't work; the banjo-tike was new Journal of the Upstart Crows and Upstart Crows a

a most unusual mic; it combined the incisiveness and "reach" of a good large-diaphragm condenser with the lack of off-axis coloration of a smaller-diaphragm mic. That made feedback in live situations and leakage in studio gigs much less of a problem. I also found that the M930 made

the task of achieving the right blend a lot easier. In mixing multiple mics and instruments, there's always a dialectic between hearing each element clearly as an individual sound and achieving a cohesive blend, and achieving a cohesive blend, one ends with a synthesis wherein all the instruments fit together into a single mix without losing their individual character. The Myor, which added little coloration but preserved a wealth of subtle detail,

Testing shock sensitivity, with both he MS93 and the SMS1 in their factory standard clips, I found that the SMS1 in their SMS1 in their SMS1 has been shocked, (fingermal topping the obsects, Garden to specify the boson) was about 3 dB better than the SMS1's, which is okey but not great performance. Lower-frequency shock sensitivity (soft part of finger the shaft) was poorer. The MS930 was 1-2 dB worse than the SMS1, and the SMS1 is no great shakes in that depart—shaft is not great shakes in that depart—shape shaft is not great shakes in that depart—shape shaft is not great shakes in that depart—shape shape shap

I tried the M930 in its shock mount, and the results were much better, about 10 dB better than the SM81. That went along with my experience in live gigs and studio sessions: with the shock mounts, the M930's thud sensitivity is no longer a problem. Just for grins (and because the Gefell shock mounts are pricey) I tried using my good oil.



Electro-Voice 313A shock mounts, and discovered that the M9208 will fit in them as long as the cable plugged into the bottom has a Switchcard or similarly sized XLR connector for the EVrubber bands to grab. (Neutrik Plugs are too short.) It worked fine, and I found that the lower frequency shock sensitivity was now at least 20 dB berter than the SMRJs, which is excellent performance. (With either shock strike with the shock sensitivity was fine the shock sensitivity was file.)

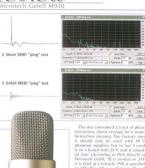
I checked the pair matching; the two M930s were within a pointertwo M930s were within a pointerwidth or so of a perfect match, close enough that I couldn't really tell. That translates to a match closer than 0.5 dB, probably a lot closer, and theyed sounded (to my ears) exactly the same in tonality. If have few hesitations in using these for stereo-pair recording on the grounds of matching.

Hun rejection was very good; weight the Wall Wart from Hell around the microphones, it was impossible to get enough hun to measure accurately a cought hun to measure accurately a hunn rejection was at least 20 dB better than the SMRs, which is plenty of enough to use even on the raunchiest old combo amp in the roam, You cold combo amp in the roam, You cold with the electrical substation next for with the electrical substation next playing friend Paul Gogle week or how.

Paul Goelz used to have... Finally, I tried tapping the microphone cases to excite stray resonances—my "ping" test. The SM81 had distinct rings at about 182, 1260 and 2820 Hz, as well as a strong subsonic resonance; the M930's main resonance was smaller and much better damped. (See Figures 2 & 3 above.)

#### Specs appeal

The data sheet specifies a solf-noise veleval of 3d-8d-weighted. That's astonishingly low; I had no way to verify it, but can testify that I never heard a but can testify that I never heard a phones. Maximum SPI, 16r 0.5%: TIID is specified at 142 dBa.; I prudently decided not to test it. The sheet notes that, at this beech, the M930 will put that, at this level, the M930 will put ing on loading; with a lond source and nexternal phantom supply, you could easily run the mit straight into a balanced line input. Is passeding the shadow of the sh



52V, and only between these two limit will the M930 perform according to specs,"—Ed.] Figure 4 on page 22 is a graph of the factory-measured frequency and pola responses (courtesy of Gefell). FII have more to say about them later on.

#### Listen hard

Having done the lab tests, I settled in for some comparative listening, again using a Project-r preamp as the front end and (unless otherwise indicated) an SM81 for reference. For many of the tests, I used my Martin 00-18, a guitar whose sound I know well, and one which I have heard through a

wide variety of microphones.

I began with both microphones
about 9° from the guitar, placed orer
should be supported to the support of the first position
for an acoustic guitar. I found that the
two microphones had very similar
tonal quality: neutral, even, relatively
uncolored. If pressed, I'd say the
the difference was quite sutific, at
also had slightly more pick and fret
noise, but not objectionably so. The
bass was tighter than the SM81's,

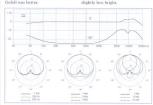


Listening over a long stretch, I found that the M930 had better delineation of notes and attacks, and more sense of a real guitar body in real space, rather than a point source in no-space. (This was, remember, a mono recording.) To borrow a phrase, with the

Gefell there was more there there. that the one on top was now on the sounds. Then I moved in close, with the mics about 4" above the same spot. Both sounded better, but the close placement also exaggerated the differences between them. The Gefell was clean, detailed and warm; the SM81 had a boomier bass, and a slightly etched quality by comparison. It wasn't bad, mind you, but the useful in XY and ORTF stereo recording, applications in which most largediaphragm microphones do poorly because their off-axis response gets flaky. Judging by these tests, the M930 might be the exception. The results were also encouraging for busy sessions ing at once: I'd be less concerned about leakage and coloration with the M930 than I would with a typical largediaphragm microphone.

Speaking of off-axis. I kept up a continuous patter of talk as I did the tests; this sounded remarkably uncolored through the microphone, which was down in position for the guitar. I'd have no hesitation about using this mic for recording a guitarist who was also singing-not something I'd say about every microphone.

Just for grins, I put up my Groove Tubes 6tm, a smooth-sounding, slightly bright tubed microphone that has done good work for me in the past. Well, the M930 was smoother and



4. M930 frequency response at 0° and 180°, polar patterns vs. frequency

I moved 90° off axis, and was surprised to hear very little change in the tone. Unusually for a large-diaphraem microphone, there was little coloration: in fact, the midrange sounded slightly less boxy than the SM81's-it may have been slightly scooped. At 180° the response became saddle-shaped, with rises at top and bottom, typical of a large-diaphragm microphone, but to my ears less so than usual. (Yes, I know the chart shows a more severe rise. Charts simply don't tell the whole story.) This was good information: Microtech

How much difference did the preamp make? Many mics change their frequency responses quite radically when plugged into different preamps, as the preamps' input sections load down the microphones' output sections differently. I tried two transformer-coupled preamps (the project-r and my homebrew tubed preamp) and one transformerago that I still use when noise isn't an issue). I heard no huge differences, and what I heard could as well have been the inherent differences between the Gefell advertises this microphone as preamps themselves. The difference in

loading (about 1.5k for the two transformer-coupled preamps, about 7.2k for the transformer-less) had little or no apparent effect on the microphone's output response.

#### Nationalism and Plinks

I tried the Gefell on a National Tricone guitar. Listening against the SM81, the contrast was fascinating both were good, but the SM81 sounded like one of the more-metallic-sounding reissue instruments now being produced, while the M930 sounded woodier, more like my actual instrument.

Considerable in a discretification in mortalization of the Coffell had a less hashly top, and better string definition (you could always tell het strings were paired, whereas they often blended into a single sound through the SMS). In comparison, the through the SMS(s), in comparison, the through the SMS(s), in comparison, the risk of the single sound through the SMS(s), in comparison, the special strings from the special strings from the sound is plainly and bright, even with Dr. Thomastik's magical strings from the Dr. Thomastik's magical strings from the SMS and the strings from the sum of the special strings from the strings for the special strings from the strings for the strings from the strings from the strings for the strings from the strings from the strings for the strings from the strings from the strings for the strings from the str

What about electric guitar? For this, I tried a three-way comparison, A/B'ing against an Electro-Voice RE200 in addition to the SM81, I did this because I don't normally use the SM81 on guitar amps, while the RE200 has become my favorite of the mics I own for recording electric guitar. (It has a big spike in the frequency response up around 8 kHz, right where the speaker is beginning to roll off, and this sounds just right on a .. lot of amps I've recorded. I'd liken it to an SM57, but without the grind and compression.) In all cases I placed the mics about "4" in front of the Kalamazoo's grille cloth (don't laugh. that little tubed Kalamazoo is a wonderful amp), well off the speaker's axis to catch the breakup modes. Most of the time my ASAT's pickup switch was set to the middle notch, because that's how I play.

how I play clean chicker-picking, the Cofell was a bit truer to the sound of the amp than the SMM1, simultane-outly weeker and less boring (don't tion of that last word; I just rell; you what I hear), but I still preferred the spikier top from the RE200. When I did not be a simulation of the SMM produced or transformer statution, as I weaker using the pod. The Gefol and RE200 counted clean. Generally support the RE200, the could live with the thereone.



#### Microtech Gefell M930 Rars and drums

Then I got really dirty, cranking the level on the neck pickup. The SMBI went into overload and was out of the running. Now the M930 and RE200 drew even; I liked the extra bite of the RE200, but I also liked the extra three-dimensionality of the Gefell. So...I turned them both on. Alt—I liked that best of all, either panning the two signals together for punch or hard left and right for a bit sound.

For grins, I rived a comple of torture tests. First, I ratisf on beering in from 16 th M200 and the MSII, next, I whacked on a "jingle-tisk", a small piece of hardwood with a single team didn't show metr, be M200 was slightly more natural, but neither was pericularly suppleasant or hashy. On the jingle-stift, or the many properties of the many properties of the many properties of the fingle rating against the stift that is noticensish hard to achieve with most microphones. The SMM picked up more of responding to subsonic frequencies to which the Gefell is less responding to subsonic frequencies to which the Gefell is less

Perhaps now is the time to talk about that frequency response graph. I have a rise beginning at about \$ kHz and maxing out at 4 dh, but it doesn't sound particularly bright to any consistency of the second particularly bright to any resonance is much less obtraviste that the narrows, sharp peaks typical of inexpensive condenser mics. Another factor is probably the electrosistic, theory circuits tend to exaggerate the sharp that the second peaks of the second peaks that the second is that this microphone did not sound shrift, hards or hady in any of my resear, ic crame across as essentially neutral, with per-

#### Open wide and sing

For my vocal tests, I compared the MS90 against an Electrotice RS1.5, an exceptionally neutral microplane that has always close RS1.5 an exceptionally neutral microplane that has always distances (+4.10°), there's no question: the Gefell needs a party ion: The extended base response that makes it black-entitive ion: The extended base response that makes it black-entitive ion: The extended base response that makes it black-entitive has a superior of the second of the extended of the extended that the pupps didn't send the micro-internal amplifier into overloads) Interestingly, I hadn't noticed a lot of a populogia at the SdI extense up there—and the M390 is quite puperistiant when you're caster up there—and the M390 is quite puperistiant when you're

The RHIS and MS99 both sounded excellent on my voice, and they inhabited the same sonic world, their midrange responses were very similar. The MS90 was brighter up top and had a of the relative man and the relative may be a supplied to the of the relative man and the relative may miss, including some very expensive ones. Compared to the REIS, I cell like the MS90 had a more relaxed and effortless sound, a sound that could cut through a dense mis, but without splittless which was a supplied to the relative man and the supplied of the dialectic again. It bended, but this sound out—there's that dialectic again.

I tried the same test with the 6tm, a microphone that's been one of my favorites for years. I found the M930 more "organic" sounding than the 6tm, which can sometimes be a little raspy up top. And, as with the Martin, there was better definition to the vacal sounds in real space, more sense of a real head singing rather than a point source.

#### No shipping costs

It's time for the summary, and what can I say? This microphone is wonderful. So is it worth the money to you?

The SH93 stereo bar that came with my review pair of M930s is intended for XY recording—microphones mounted above one another, angled outwards, usually at 110°. (Also available: the 1D93 bar for ORTF recording, which spaces the micro-

phones 7' opart.)
The SH93 stereo bar is a well-made chunk of aluminum, with the same excellent fit and finish that cho-acterizes the microphones. It also seems quite non-resonant, an important quality too often neglected in microphone accessories.

#### Setting up the stereo bar

In use, I bound the SHYS, somewhat fidely first, while the female corrector that the female corrector that ordaches to the shand or boom is the standard. American thread, the male connectors that hadd the mix clips are the smaller European thread. To use the European thread of south in the clips that is the small threaded adapters small threaded adapters and it threaded adapters and it threaded adapters and it is the control of the smaller point to get out the media of the mix thread thread threaded thread

adapters. Better still, pack a couple in the mic case.]
The second fiddle comes from the need to use shock
mounts. As I discuss in the main article, shock mounts
are mandatory for the MP3Os; using the standard
disp. Seeds to exaggerated sensitivity to footfalls and
other suchio noises (read "drums and bass") being
conducted up the stand and into the mics.

Untortwately, to use the SHY3 stereo bor you must use Microbed fidelil's own shock mounts. While the Electro-Voice 313A works fine on a single micro-phone, it's too light to use with the borr—you can't both mics. Once you get the mics mounted, the floppiness of the Gefell shocks makes them a little hard to align. However, persevere further, and with a little hweeking you can get a good XY stept.

I tound that for drums, mounting the SH93 on the end of a boom worked fine, and the included clips were very helpful in keeping cobles out of trouble. For accounting uitars and such, however, getting the assembly in position was more problematic, especially, when the players were seated.

If I'd had a very short stand I'd have been okey, but old stathment of the condition of the



Look, we need to establish a few things. There really is a difference between most of the equipment used in Downtown studios and most of what we use in project studios, and it's not only a difference in price. Some of the difference is reliability; a piece of truly professional equipment has to work the first time, 247,

and keep on doing that for years on end.

But some of the difference is in sound. There have been great strides made in less-expensive and semi-pro equipment, and we chronicle them in this magazine all the time. You really can get an awful lot more for \$400 these days than you could 30 or even

10 years ago (although the stuff usually won't be as bulletproof

All that being said, there's a level of professional performance artinated on reagular basis by some manufacturers that is headand-shoulders alrow the less-expensive competition. The differand shoulders alrow the less-expensive competition. The differing of a guitar body in real space rather than a point source, but the space, for example. Among the manufacturers that attain this level you'll find names like Neumann, Soundelste, and Schoepe there are plenty more; those were just the first three that came (fully perfectional exclusion of the manufacturers) and the contribution of the space of the contribution of the space of the space of the contribution of the space of the space of the space of the space of the following the space of the s

And that's solong this misseach are helegar

Where in that echelon? There are plenty of microphones out there, both in the fully-gro sphere and the semi-pro and project world, that are one-trick ponies; great on baritone vocals, say, but horrible on tenors. These micros search's to be servered at; after loop bought that RE200 because it sounded so good on guitar amps. (It's also nice on bodhram; okay, that's two tricks.)

Much rarer in the microphone world is the mic that sounds excellent on a broad variety of sources—a Swiss Army Mic, if you will. Usually mics like that have relatively uncolored sound, corresponding to a flat frequency response; if there is a brightness rise, it's very broad and gentle, rather than sharp and edgy. That's what the M930 is about, and it's a rare critter. The closest analogy I can think of is the Neumann TLM 193, another sleeper of a mic.

uning the over-noise in the shadow of its indee construit consists. The M500 states the way for of, a lor of folks record with miss, The M500 states the way for of, a lor of folks record with miss trends toward a more naturalistic appreach. The M500 gives me towards a more naturalistic appreach. The M500 gives me tower, to miss the construint of the few cases of miss and the construint of the few twists of the dial.) And it gives me those signals with a level of detail, clarity and lack of harshness that marks fully professional-calible geor, on a wider variety of sound

sources than most mics can handle.

In short: a superb professional microphone, among the best

I've used, and it fits my style like a glore.

After the M930s arrived and I'd used them for a few weeks, I

told Mike Metlay at the magazine that I didn't think they'd need to arrange return shipping after the review. Three months in, I'm sure of it. Hang the expense—I'll spring for them, and these mics will earn their keep.

Price: \$1150 each; sold as boxed pair with SH93 XY stere (as reviewed), \$2550; EH93 shock mounts \$250 each

More from: Microtech Gefell, www.gefell-mics.com. Distributed by C-Tec, info@cabletek.ca or 604/942-1001.

Paul J. Stamler (stamler@recordingmag.com) is a recording engineer, producer, and archivist of unusual recordings from the early part of the 20th Centure. towards the floor gave me just the right height and all the maneuverability I needed. Make sure, if you follow this suggestion, that the gooseneck you use is right and hard to bend; a floppy one will just sog out on you and be useless.]

#### Drums in mono After the main body of the review was written I got

the chance to go down to Red PII Studio's rice new digs in the loft district of St. Louis (back them out at www.redpillonline.rom) to try the MV930s as overheads on a drumks. Toris Hughes and the Bagon in more, since they often record drums that way (lold-line rock in Yall). He likes an Audio-Technica Ald-40 in this position, so we placed one next to the MV930 (both shack-mounts), ran them through a Sytay preemip into Pro-Tools,

ed), ran them through a Sytek preamp into ProTools, and Christ drammed while I rolled. The MY930 was a bit brighter on cymbols, but the biggest difference was in the toms, there was more beef and thunk to them, more interesting, and definitely more sense of a moving skin.

The state of the

reas we exchange an MCD 12s, a microphone whose sound Likrow well an advumikt. The difference was more landered, the MCD 12 seemed to have more room to make the MCD 12 seemed to have more room come in closer and mitted the kit in white land. MCD come in closer and unified the kit in white land. MCD ment Again, it was a fell brighter. Both sounder ment Again, it was a fell brighter. Both sounder remerkably good (MCD) 2s get a burn ray, mashly because of the many sold without quality central. A good one is quite a decent microphone, and I use mines a lot.1

#### Drums in stereo

We re-rigged for stereo, using the SH93 bar for the Gefells and a Shure A27M for a pair of Oktavas, Il'd have tried some Neumann KM 84s, which I really like for overheads, but they'd been lent aut.)

Fronkly, there was no contest. With the Olderous you heard pinpoint imaging corses or recorded sounding heard pinpoint imaging corses or recorded sounding (with a little bit of spleads on the cymbols), Bet with the W930's you were in the room and you heard DRAN, Nothing exoggerated, nothing phony, drums. The sounds of the attacks on the cymbols sounded the sounds of the attacks on the cymbols sounded the sounds of the attacks on the cymbols sounded the on metal, not something processed and electronic. And once opain, the tons mode the pic shalver a little.

#### And just for grins...

unplugging the M930s from the Sytek preaimp and hooking them to an external phantom power supply with transformer coupling. The output was much lower, of course, but the M930s are hot enough mics to drive a 24-bit converter to a reasonable level.

a 24-bit converter to a reasonable level.

What a difference a transformer makes, Instead of the uncanny sense of a window open and drums right.

Jocob described as "mooty," lots of emphasis in the lower midrange, less clarity on top. To me it was like being transported to 1965—and I was listening to Motown records again. A fun sound, if somewhat specialized, But the sound through the Sytek was superb.

My deep franks to Chris Hughes of Red Pill for being engineer and uki all at once, and to Jacob Detering for lending his ears and ideas. Chris, you can play on my allum any time.