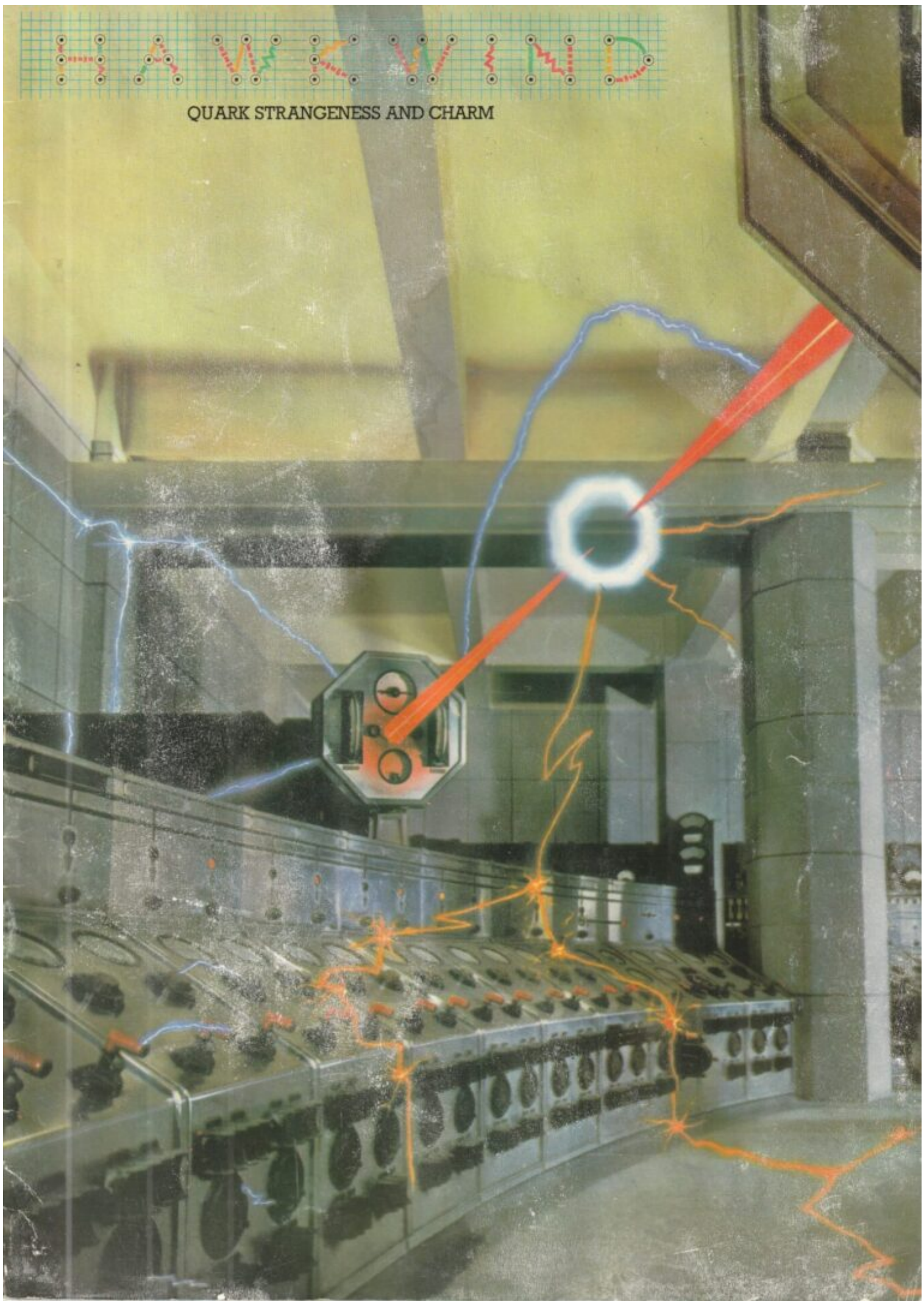
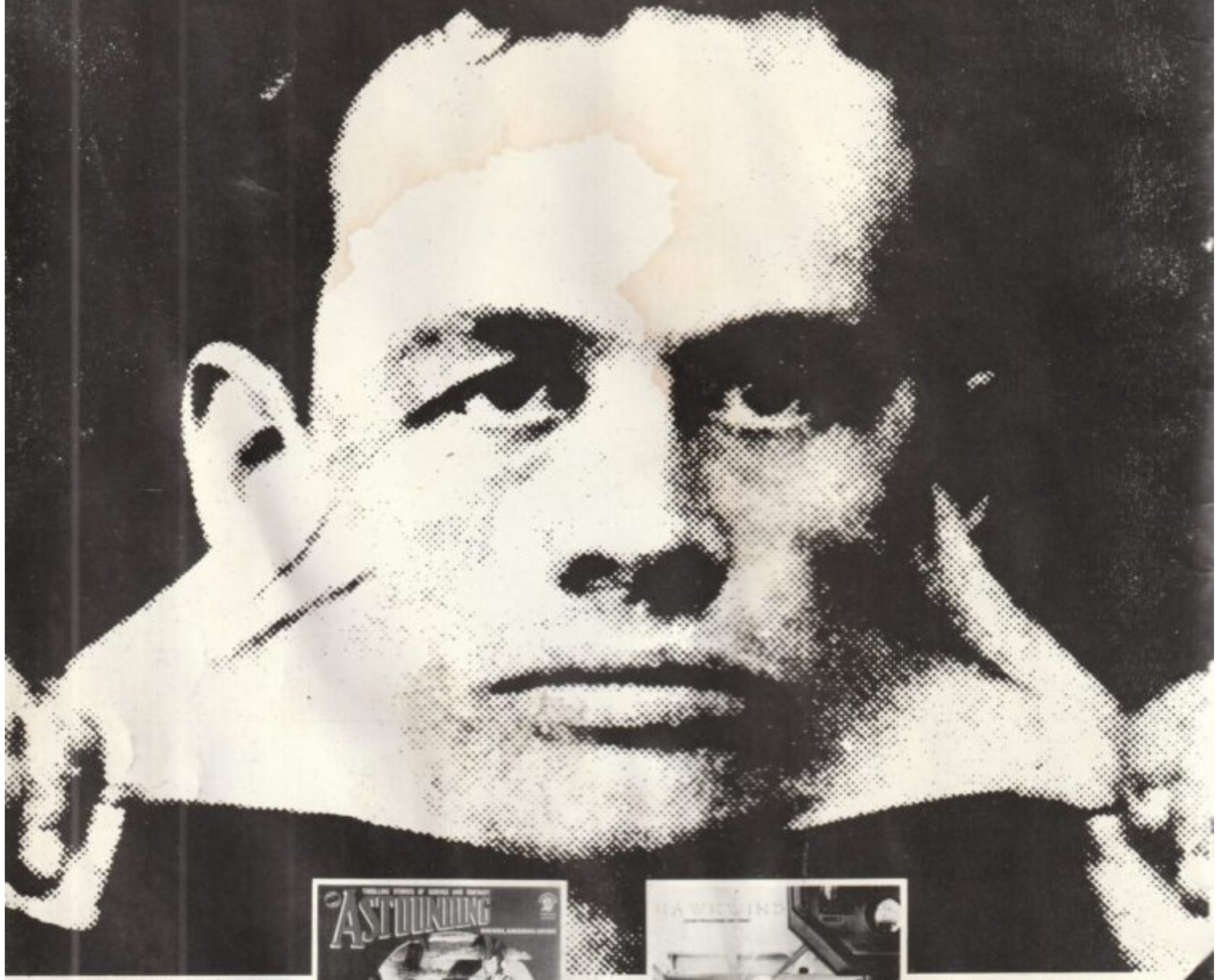




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HAWK WIND

SPIRIT OF THE AGE



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Russians rage over neutron bomb

Eighteenth century
miniature human being

New Scientist 4 August 1977

QUARK, STRANGENESS & CHARM



Missing charm state discovered

The announcement of the discovery of a 1930-GeV particle by Leon Lederman's group at Budapest (New Scientist, 21 July 1974) may initiate a new stream of strong interaction physics. More quarks announced but also significant was SLAC's discovery of another new particle: the $\psi(3720)$ with a mass of 3.712 GeV and a lifetime of 2×10^{-14} sec, which is positively the final combination of charmed quarks.

The SPEAR group share the discovery (see in Group 8, the group working with the magnetic detector which made all the discoveries on the J/psi and psi-prime). The other, called BESCO (Boson Electron Collider) is a new group working on the opposite of the SPEAR storage ring.

Four to the morning discovered being made at other energies. SPEAR had left an energy gap between about 3-65 and 3.86 GeV relatively unexplored. BESCO was not a "gap" through the energy region, rather to Group 8 disappearance.

Nevertheless they scanned the region. At 3.77 GeV they discovered the first

indication of the new particle—a much increased signal. Subsequent work by both groups confirmed this as a new particle.

In fact theorists had earlier predicted that such a particle should exist. Last year a group at Cornell (Physical Review Letters, vol 36, p. 2001) working with their favourite model of the interaction between a charmed quark and an anti-charmed quark had predicted a mass of 3.73 GeV for the particle.

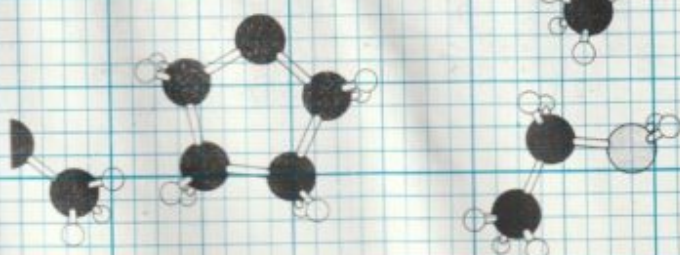
This mass is very resistant to changes in the parameters of the interaction between the two quarks. Any model which fits the first two particles or several orbital angular momentum states of the quark pair almost automatically predicts an excited state with two units of angular momentum (i.e. D_s state) with a mass of about 3.75 GeV. It would have been a candidate for the charmed model if the particle did not exist, although it was difficult to predict how rapidly it would be produced at SPEAR.

In the event the particle discovered fits charm predictions only well. Its mass is

greater than the combined mass of a pair of the charmed quarks, whose masses were announced in Budapest as $D = 1.980$ GeV and $D^* = 1.984$ GeV. The new particle should therefore decay into a pair of the D's but instead for the first time about lifetime of the new particle compared with that of the D's and particles for which such a decay is allowed, interaction is unexpectedly suppressed.

The D's are then decay weakly and the charmed quark preferentially produces strange particles. Therefore it was expected that many D particles containing a charmed quark would be seen for the first time—their decay being slow.

The SPEAR experimenters hope to get on now to see the copious production of the $\psi(3720)$ to see whether quarks can influence their previously observed anomalous decay modes (New Scientist, vol 75, p. 146) which have been interpreted as demonstrating the existence of an extra heavy lepton. Present indications are that they think and that the heavy lepton exists.





SPIRIT OF THE AGE

"I would have liked you to have been deep frozen too and waiting still as fresh in your flesh for my return to earth but your father refused to sign the forms to freeze you . . ."



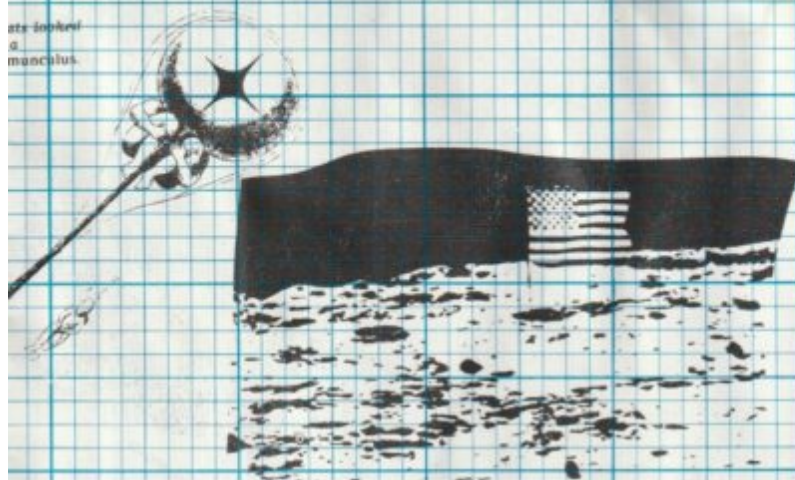
Yes. That's the spirit of the age. And this is Hawkwind, who are part of that spirit. The last of the Futurist bands, from the days of the underground. Remember. Survivors of all the various modes or nostalgia. That has since threatened to swamp us all with sentimentality. But Hawkwind have never looked back. They may have gone in and out of fashion. But they stuck to their guns of Futurism, and they come out blazing every time. And it looks at last as though the music business has caught up with what they set out to create in the early seventies: a tidal wave of energy, simplicity and truth. Everything critics sneered at them for in the past is now emerging in a different light, as the essential requirements for any serious musician in the modern world.

As the song says:

"In visions of Acid we saw through delusion and brain box pollution we knew we were right"

The days of acid are long past now. But the vision is carried on. "And we would not bargain for what we had found/in the days of the underground."

sts in her/ a manilus.



Experiments in the wind tunnel. Effects of air pressure at flying speeds of 300 to 400 m.p.h.

Hawkwind are five distinct individuals who when they work together form a kind of gestalt (an integrated whole, not a mere summation of units, or parts.)

BOB CALVERT

VOICES, percussion, morse and strangeness

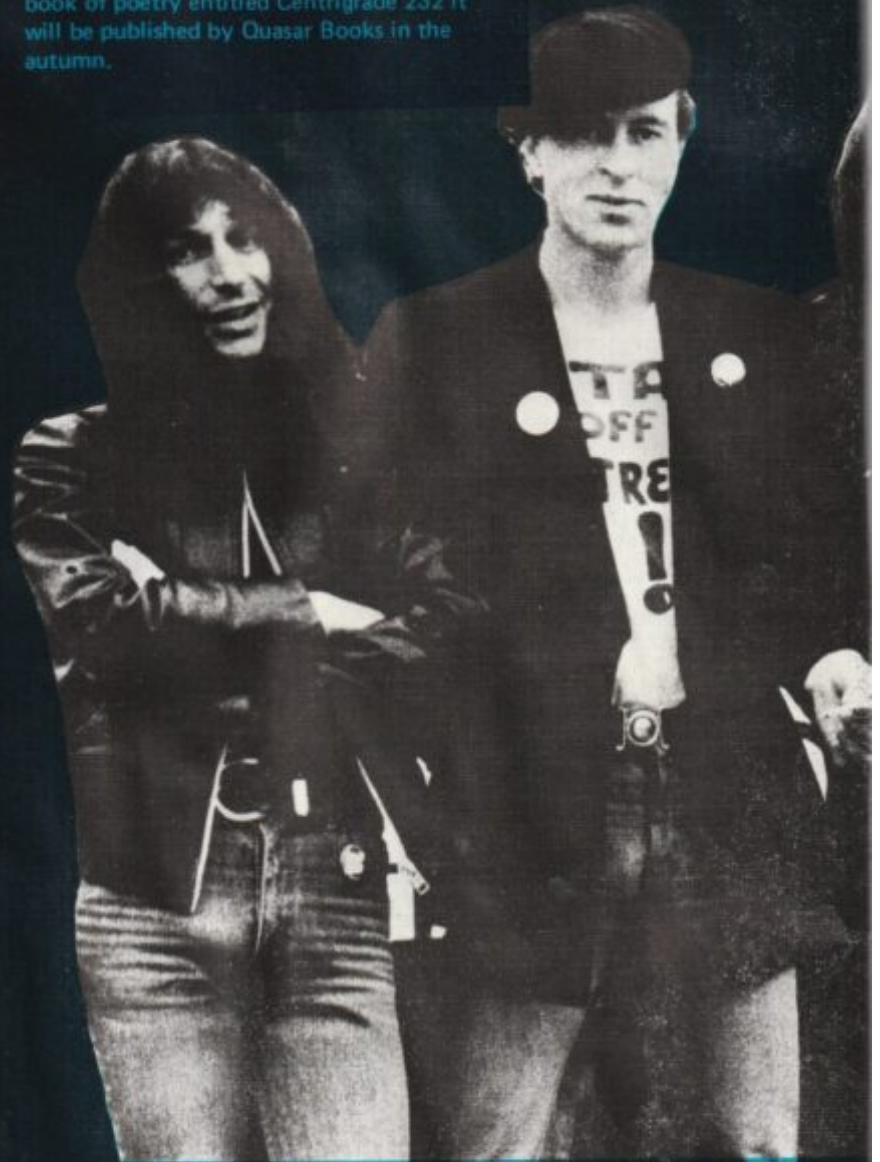
Bob Calvert is a poet, a dramatist as well as a singer. Hawkwind is his life; and after leaving the group for a short period to follow a solo career; he rejoined them. Calvert who once performed with a group known as Oliver Twist and the Lower Third; has written a book of poetry entitled *Centrigrade 232* it will be published by Quasar Books in the autumn.

ADRIAN SHAW

bass guitar, vocal and handclaps

Tottenham Hotspur's leading fan, Adrian Shaw began playing bass professionally in 1967; when he joined Arthur Brown in Dorset. After a couple of years he transposed himself to Bristol to join Magic Muscle; a band whom during their two years of existence supported Hawkwind on several tours. On the demise of Magic Muscle, Adrian came to London, and a wide variety of experiences ensued. He toured Germany with Hawkwind, as a stand in bass player; he played with Keith Christmas and rejoined Arthur Brown, then joined a band called Zarabanda, who played anything and anywhere from cabaret clubs to backing drag acts.

In January, this year Adrian joined Hawkwind, in time to record *Quark, Strangeness and Charm*. "A logical progression from Magic Muscle; now everyone is a Hawklord."





SPIRIT OF THE AGE

SIMON KING

Drums Percussion and no vocal

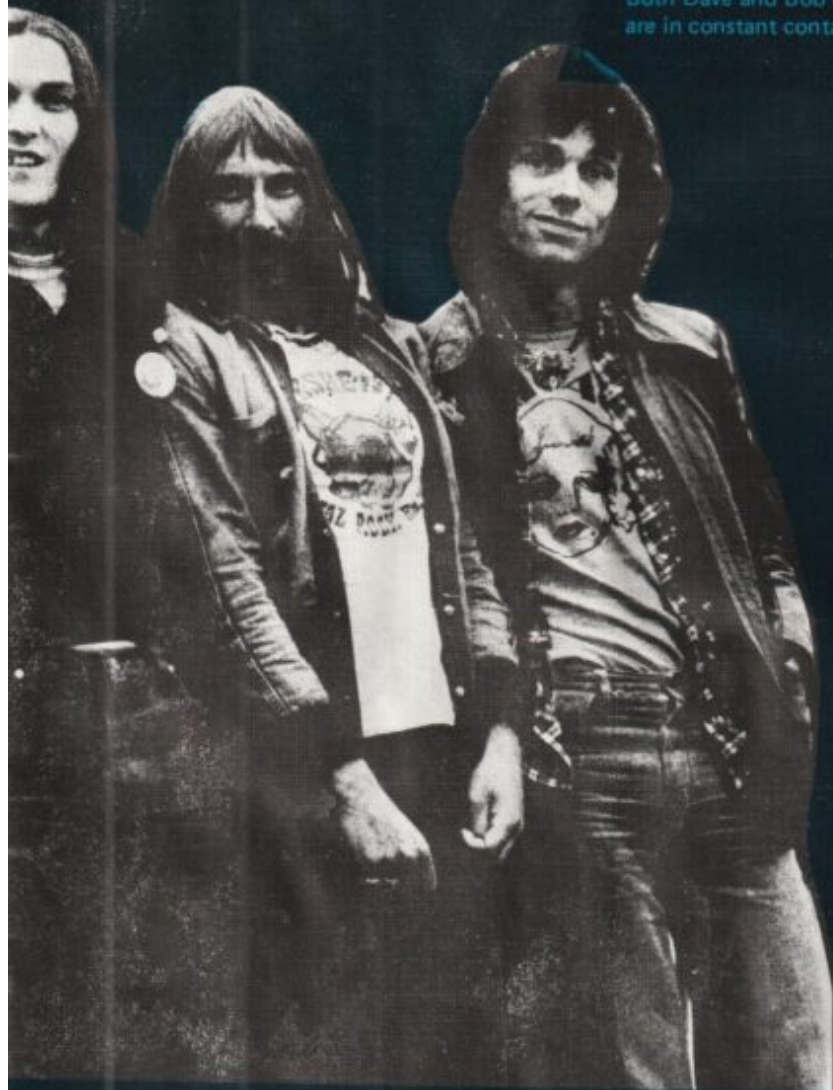
Speedway and football are his hobbies; drumming is his career. Although Simon King was not the original drummer with Hawkwind; he joined them from Opal Butterfly; it is hard to ignore the contribution that he makes to the band.

DAVE BROCK

guitar, synthesizer, sound FX vocals and Quark

Dave Brock formed Hawkwind around a nucleus of freaks in Nottinghill Gate in 1967, whilst playing with the Famous Cure. Dave Brock is Dave Brock & Dave Brock is Hawkwind.

Both Dave and Bob live in Devon where they are in constant contact; writing and creating.

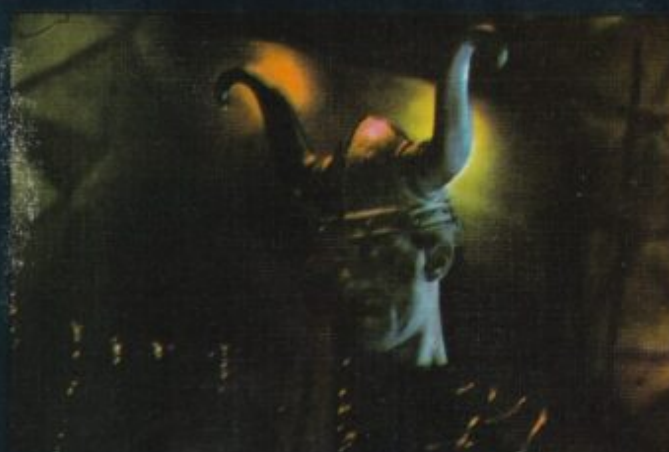


SIMON HOUSE

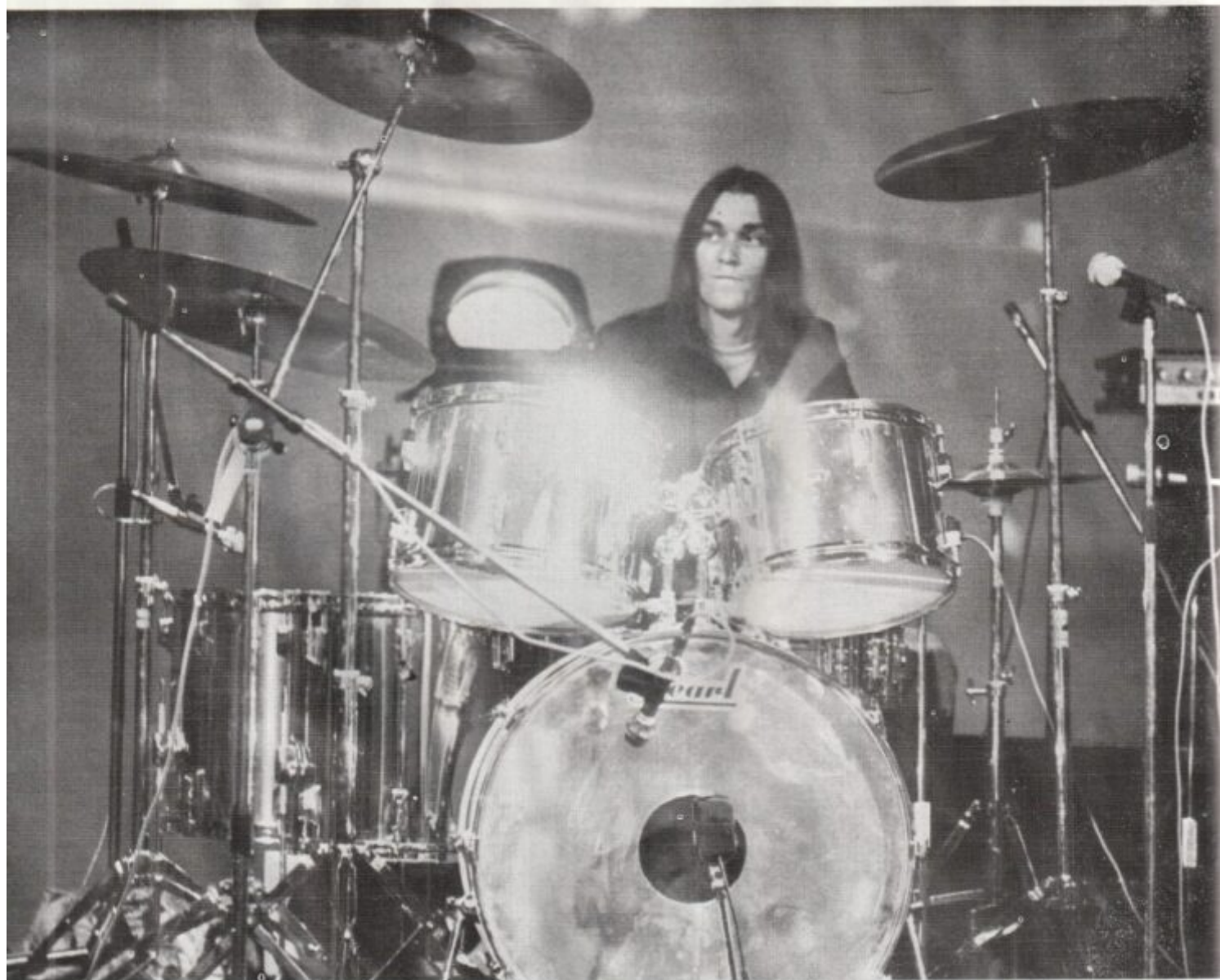
Keyboards, violin, anvil, vocals and charm

Son of Bert House, famous dance-band musician of the Midlands, he began his professional career in 1968 with High Tide, an ill-fated band whose murky origins somewhat intertwined with those of Hawkwind or Group X as they were called in that historic gig in All Saints Hall. Next came the Third Ear Band and two years of magic, confusion and poverty before quasi-disintegration.

After a year as a stoker in the Old Charing Cross Hospital, joined Hawkwind, and a week or two found himself in L.A. and has never looked back or forwards or any other direction in particular, ever since. He has now been playing with Hawkwind for 3½ years all over the shop.



Pearly King.



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SPIRIT OF THE AGE

SPECTRUM

SCIENCE

THE SUNDAY TIMES, AUGUST 7 1977

Bright spots in the Universe

How the mystery of black holes in space could explain what quasars really are



...the bright spots in the Universe are quasars, which are thought to be the most powerful sources of energy in the cosmos. They are believed to be powered by the accretion of matter onto a central black hole. The intense gravitational pull of the black hole draws in nearby gas and dust, which is then heated to such a degree that it glows brightly across the electromagnetic spectrum, from radio waves to X-rays.

...the bright spots in the Universe are quasars, which are thought to be the most powerful sources of energy in the cosmos. They are believed to be powered by the accretion of matter onto a central black hole. The intense gravitational pull of the black hole draws in nearby gas and dust, which is then heated to such a degree that it glows brightly across the electromagnetic spectrum, from radio waves to X-rays.

Bryan Silcock



REFLECTIONS
TWO POEMS BY ROBERT CALVERT

LADY WITH A LOOKING GLASS

She casts her eyes,
Like pebbles,
Into the pool
Of the mirror's stillness

And stares and stares

At the rippling image
Until her gazing trails
Like a net
To haul the illusion

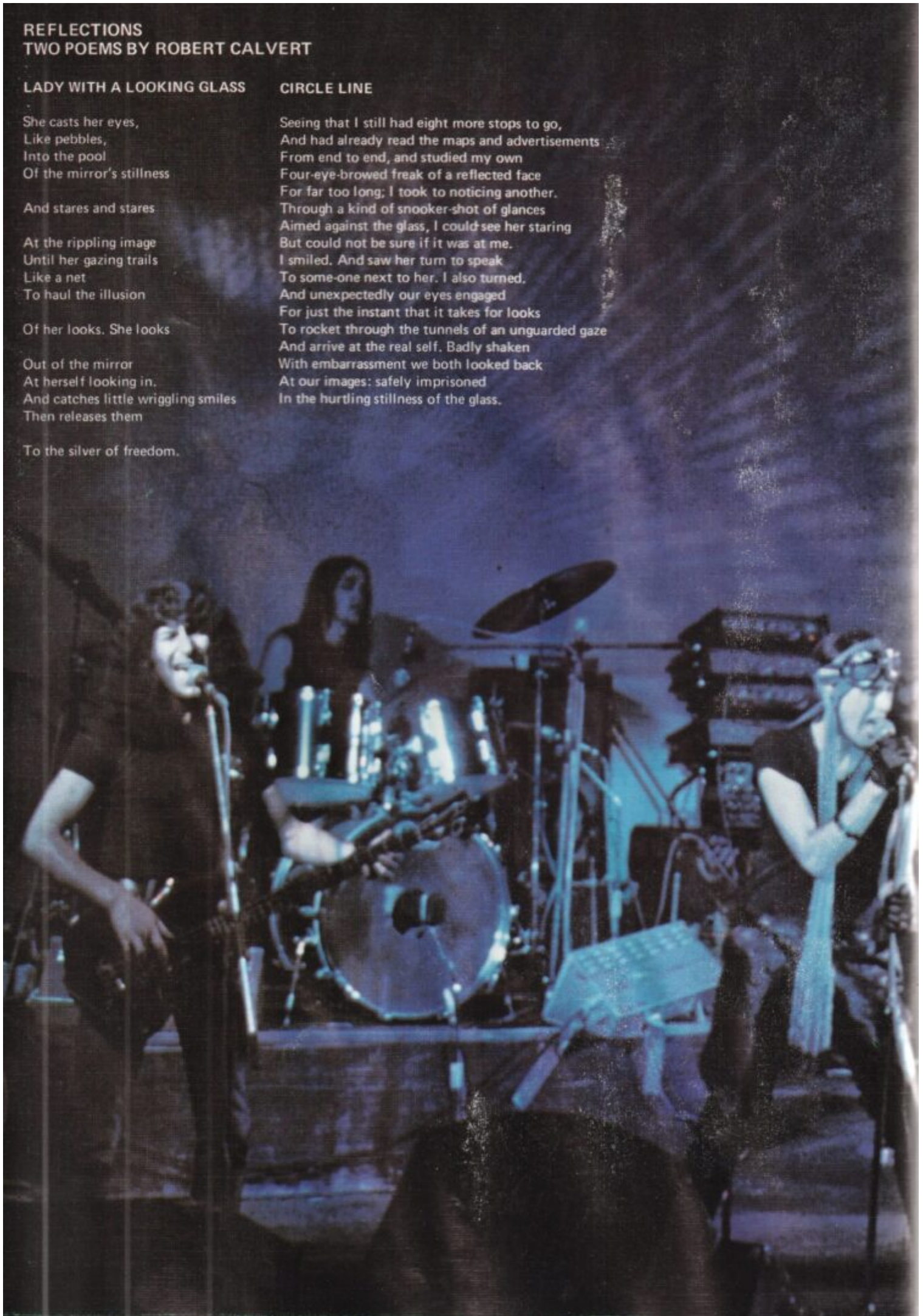
Of her looks. She looks

Out of the mirror
At herself looking in.
And catches little wiggling smiles
Then releases them

To the silver of freedom.

CIRCLE LINE

Seeing that I still had eight more stops to go,
And had already read the maps and advertisements
From end to end, and studied my own
Four-eye-browed freak of a reflected face
For far too long; I took to noticing another.
Through a kind of snooker-shot of glances
Aimed against the glass, I could see her staring
But could not be sure if it was at me.
I smiled. And saw her turn to speak
To some-one next to her. I also turned.
And unexpectedly our eyes engaged
For just the instant that it takes for looks
To rocket through the tunnels of an unguarded gaze
And arrive at the real self. Badly shaken
With embarrassment we both looked back
At our images: safely imprisoned
In the hurtling stillness of the glass.







It's like having Keith Moon in the room. Only safer.

These Sony hi-fi components are some of the best in the world. They should be, they cost a small fortune.

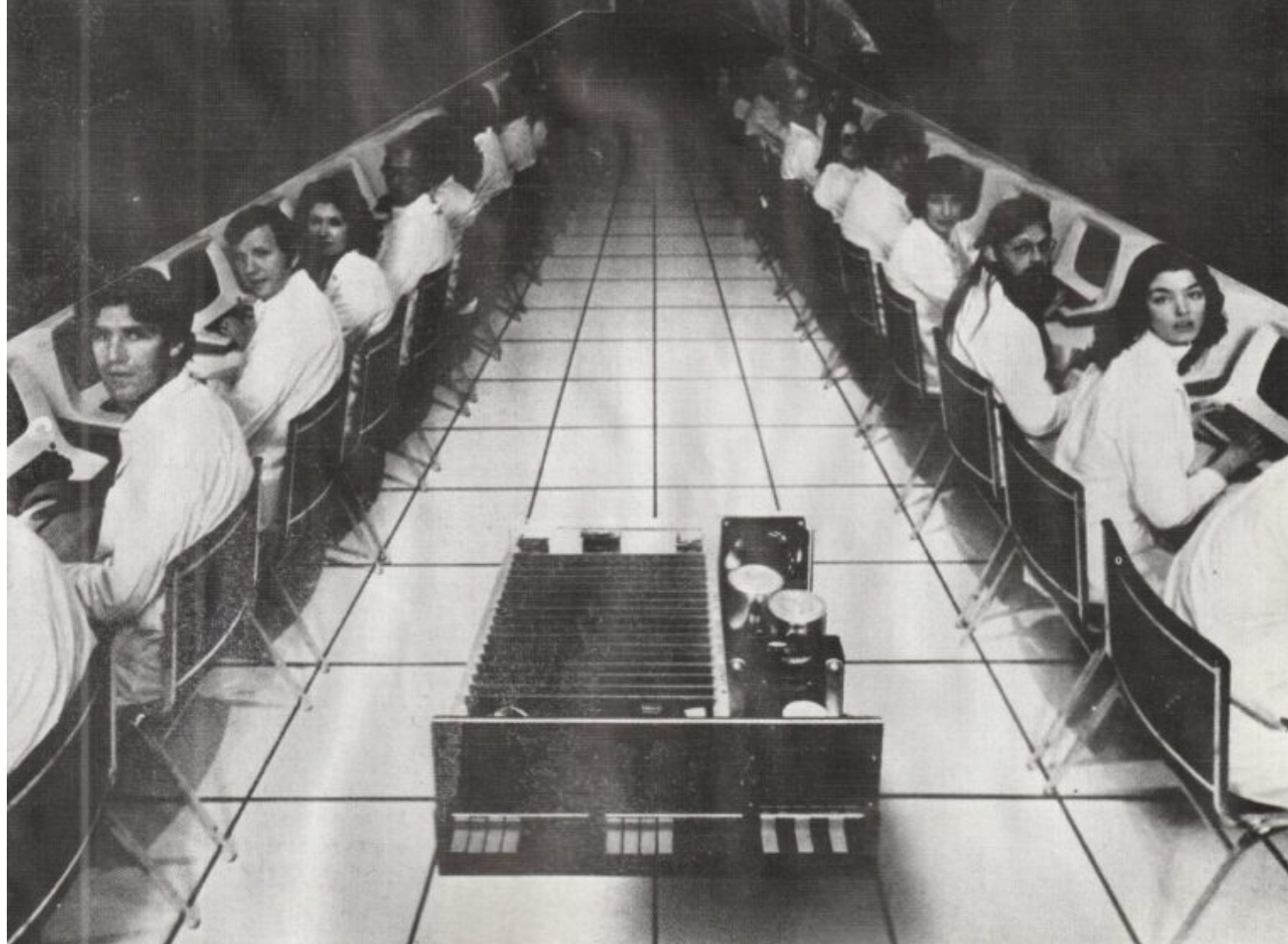
They'll rock your eardrums. They'll break your bank. But they'll never lay a hand on your furniture.

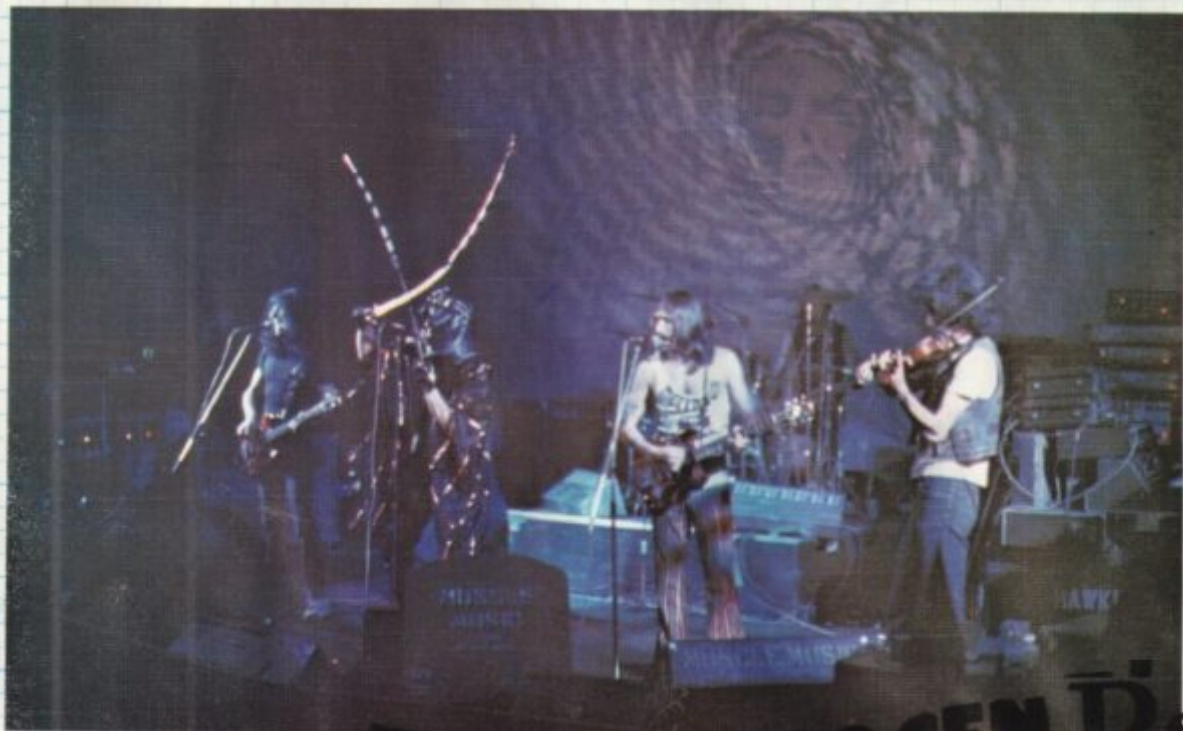
SONY
HIGHER-FI
Hi-Fi but higher

i am a clone
i am not alone
every fibre of my flesh and bone
is identical to the others'
everything i say is in the same tone
as my test-tube brothers' voice
there is no choice between us
if you had ever seen us
you'd rejoice in your uniqueness
and consider every weakness
something special of your own
being a clone
i have no flaws to identify
even this doggerel that pours
from my pen
has just been written by
another twenty telepathic men
word for word
it says: oh for the wings of any bird
other than a battery hen



SPIRIT OF THE AGE





KEEP IS INNOCENT Packer a tv



Persecuted
for being
a punk...

AFTER READING an intelligent and well balanced article in your paper (A. 1. 11. 81) about punks and teddy, I thought maybe this particular issue might be the binnet of people who would be quietened down, but oh no!

On the same day I was at a pub near London Bridge when a friend of ours came in to have a drink. He is 17 years old and was wearing a white tee-shirt and multi-colored pair of jeans but was banned from drinking with us because of his dog-collared (animal not clerical). He was a punk.

The ironic thing was that sitting at the bar were two long-haired hippies without shoes and with jeans rolled up to their knees. The very people who would have been banned 7-8 years ago...

**CANNABIS
CRUSADER
STILL IN
SOLITARY**

Pub with no beer—for a punk



KERRY P...

Talk
—just
idea
Pac

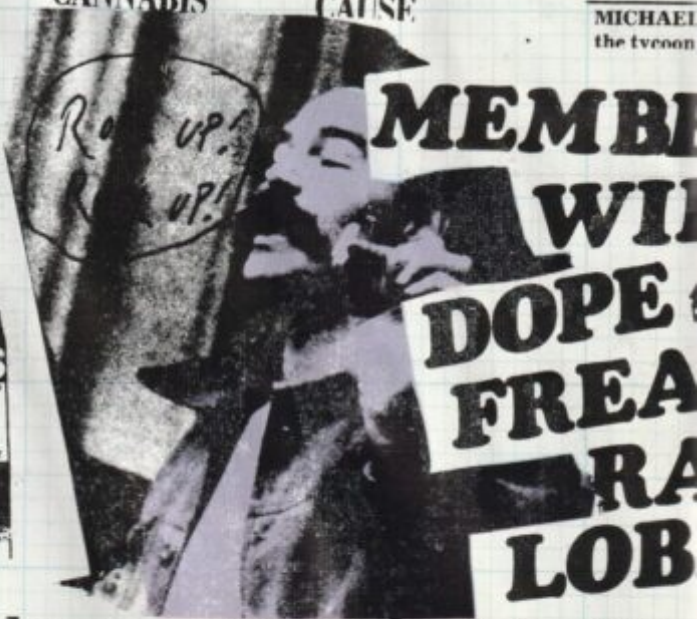
MICHAEL
the tvcom



**MONSTER ACID
TRIAL STARTS**

more **DIVINE**
A NEVER BEFORE SEEN
IN NY DOUBLE
**MULTIPLE
MANIACS**
Directed by John PINK
FLAMINGOS' Waters
"A highly seazy horror
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**MONDO
TRASHO**
Starring DIVINE
& the whole gang
CINEMA VILLAGE

THE CANNABIS CAUSE



**MEMBER
WITH
DOPE
FREEDOM
FOR ALL
LOBBY**

Traders accuse punk club of 'te



SPRIT OF THE AGE



Hospital drama of rock king

ELVIS IS DEAD



The weaponry of hate

men face ban



Packer shadow looms over Leeds

... "I'm really g... at we're doing," he sa

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HART face to face with who has taken

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Spunk In The '70s

- 1 GOD SAVE THE QUEEN-SEX PISTOLS
- 2 Pretty Vacant-Sex Pistols
- 3 Anarchy in the UK-Sex Pistols
- 4 Spiral Scratch EP-Buzzcock
- 5 One Chord Wonders-A
- 6 Right to Work/The Lo



SOUSIE & THE BANSHEES
THE SLITS
THE ANTS

NE



EMANUELLE IN AMERICA

Blasphemy Case Appeal

PLEASE HELP

MARY WHITEHOUSE MUST BE STOPPED

GAY NEWS has just been fined £1,000 at the OI and its Editor Denis Lemon has been fined £500 and a 9 month prison sentence suspended for 18 months. GAY NEWS and Denis Lemon will also have to pay legal expenses of many thousands of pounds. And all this for upsetting Mary Whitehouse by publishing a poem about the death of Christ by Professor James Kirkup, former holder of an Arts Council Fellowship in creative writing, the author of over 10 plays, 2 television plays and over 57 published books of poetry and prose. Gay News has got to appeal against this conviction and sentence not just for its own sake and that of Denis Lemon but also on behalf of all writers, publishers and ordinary readers.

Please send donations (large or small) to G.N. Fighting Fund, 1A Normand Gardens, Greyhound Rd., London W14 9SB.

Front route evacuation

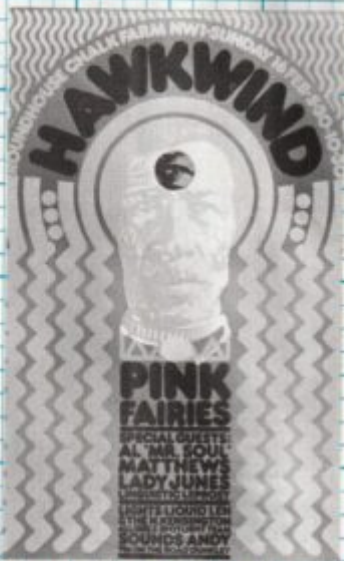
ELDERLY and handicapped people living close to the National Front's march route through Lewisham will be evacuated if they want to be, Ron Pepper, said today. A certain trouble spot is the Clifton Rise, New Cross, from the Socialist Workers Party have said they will occupy.

National Front: 'People say we're a Nazi party'





SPIRIT OF THE AGE



Posters available in the front of the Theatre

Bethnal

A punk with a violin?

Yeah, but then Bethnal aren't exactly your regulation — issue new wave band.

IT'S VERY strange, you know," said George Csapo, scratching the stubble on his chin. "When we were at school kids used to mix together whatever their family background. But when we left we saw all our mates returning to their kind. All the West Indians started hanging about together. All the Pakistanis. All the white English kids

They even tried to get me into the Greek community again."

Csapo lapsed into a hilarious imitation of the broken accents you can hear anywhere along the Holloway Road.

"But that's stupid, you know. We're all the same under the skin. Let's face it, Britain is a multinational country, right? So it's culture should be multinational too."

George Csapo, Everton Williams, Nick Michaelides, Pete Dowlings and me.

We're talking about the space between us all. Talking about a rock band made up of Cypriots, West Indians, Hungarians and one solitary blue-blooded Englishman. Talkin' 'bout Bethnal.

Bethnal have just signed rather a large and exceedingly useful contract to make records for Phonogram. Knowing that, you could look at them, the youth in their faces and the birthdates on their passports and presuppose they were yet another New Wave band with barely six months in their history book. But you'd be wrong.

Their average age is only twenty one, but Bethnal have been together with the same line up for almost five years. They started in school in Alexandra Palace, London. The backrow in the D stream, flicking ink pellets at the teacher and strumming imaginary guitars during break. By 1973 they were spicing their gigs with Credence Clearwater Led Zeppelin and Deep Purple covers, filling obscure pubs and working men's club gigs, earning applause by the roomful, supporting and decimating countless 'name' bands...but getting precisely NOWHERE themselves.

"I'll tell you one thing we used to think," said George (the dapper Greek Cypriot). "We used to think nobody wanted to sign us 'cos of Everton being black 'y know. All those four piece, clean white boy acts and we didn't look right. We even thought of sacking Everton just 'cos of his colour."

Tell that to the National Front, George.

"Don't talk to me about the National Front, they're wankers." Lemme introduce you to Mr Williams, Bethnal's bass player, and black man to boot. Intelligent. Articulate. Expansive. A writer of 'thought provoking' lyrics. A humourist too. A Nice Guy...but tough."

"All that stuff about goin' back home. You ask my little sister where home is and she'll say England. She was born here. You can pick on me if you don't like me as a person, right. But to go for me just because of the colour of my skin... Mind you, a lot of blacks are just as stupid as the National Front. If they get shit from a white guy they get heavy with all white guys sort of on principle. That's ridiculous."

MELTING POT. But not Blue Mink style. Bethnal learnt their tricks playing Pops and Soul, Reggae and Heavy Metal. But if they're conveniently bracketed with the New Wave nowadays, it's not because there a bunch of cynical young pros who follow the dough wherever it leads. It's because they're 1977...with a difference.

You've already met two of the guys, so you'll guess that Bethnal are a political band. Or even Socio-political if you wanna get in 'techtshul about it. But not overtly so.

Their songs, so Everton Williams informed me, are just about what it feels like in London today, simply the sum of their experiences Musical as well as Social. And the messages in their songs like 'The Outcome', 'Who We Gonna Blame', 'Leaving Home' and the decisively anti-National Front 'Who Dat You Talk To' are more of an...er...universal nature than specific political harangues. About that George Csapo was most insistent, banging his fist on his hand to back up his oratory.

No, the difference lies, of course, in that violin. And in the fact that Bethnal play with such confidence and musical skill that they can set a rip-roaring, punk styled rocker next to an immaculate recreation of the Who's 'Baba O' Reilly' and make 'em both sound the same. Nothing but high action rock 'n' roll to cross all frontiers and belie all prejudices.

"Some people approach us thinking we're a Punk band, or something and then ball us out 'cos we do a Who number."

George Csapo's face slips on that look of scorn you might get from a sharp kid on any street corner in the world.

"But they were what got me into rock to begin with. I used to be a classical music freak when I was at School. I was a bit of a skinhead then but I used to play my violin in the school orchestra. Then I heard those Who songs like 'Won't Get Fooled Again' and 'The Seeker' and what they were saying really got through to me. I think they still mean the same now as they did then...so why can't you do 'em."

Why not indeed? Especially when you can play them as well as Bethnal do.

ANYBODY who has seen the hand will agree that they weigh in like race-tested winners.

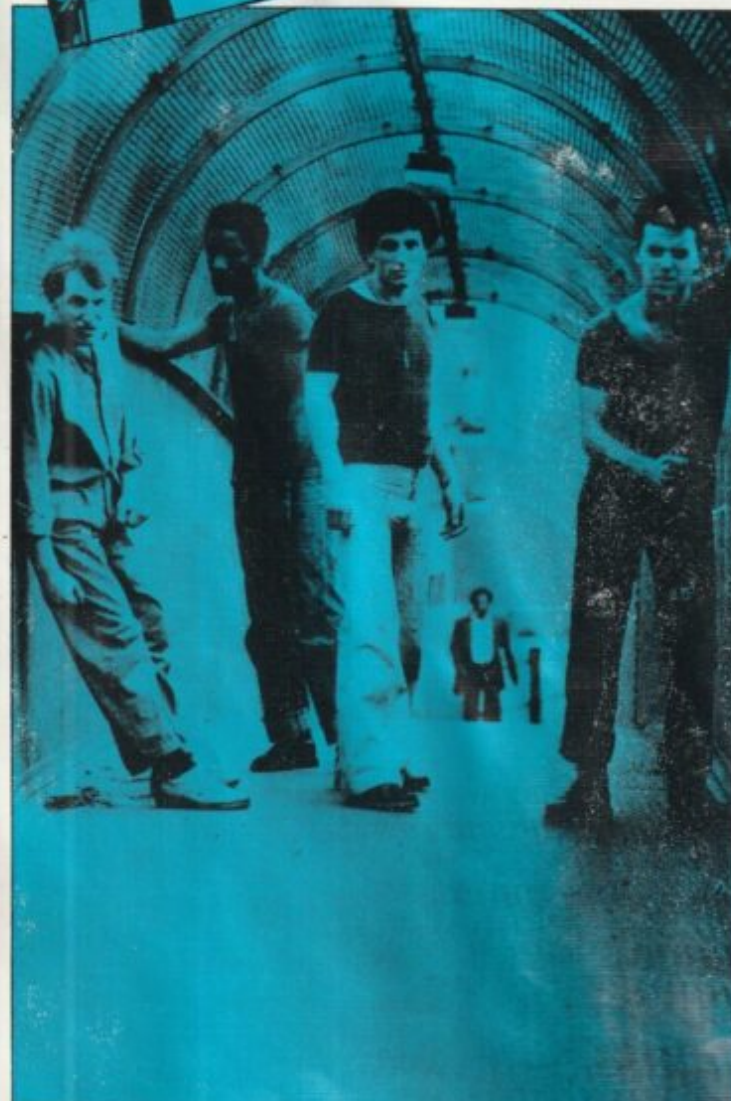
With George out the front with his clear, strong voice, ripping keyboards like alternating current, or sparking up his violin with a real fire and commitment...

Needless to say, Bethnal have a highly talented and distinctive front man. Bass players and guitarists could do worse than check out Everton Williams and Nick Michaelides too.

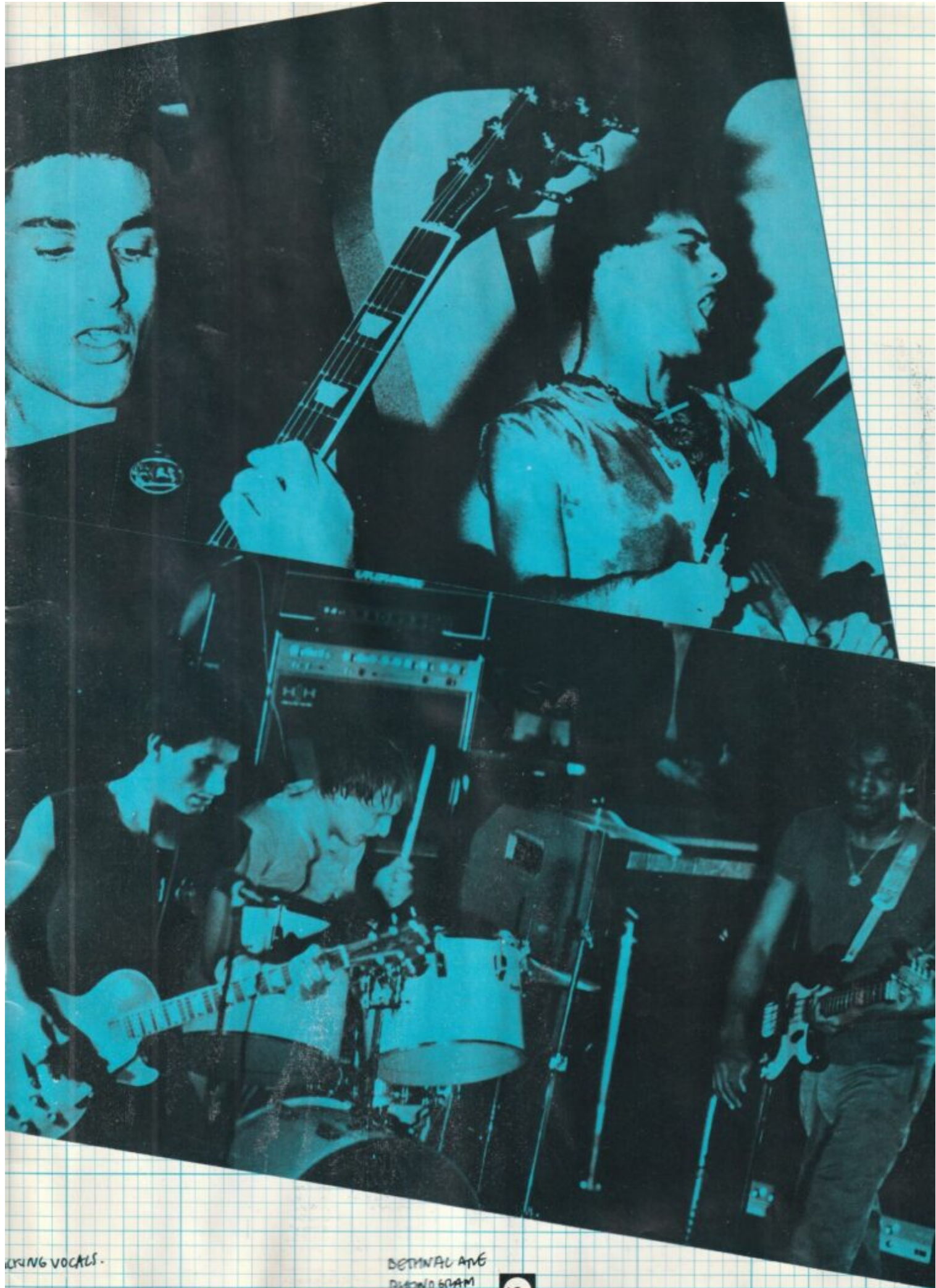
The one for his solid onbeats anchor, the other not so much for his soloing (which he keeps tight, simple and effective) but for a chordal drive tuned frequently as tight as Wilko Johnson. And, finally, lovers of the way good rock bands play together will admire the way Pete Dowlings ties the package up with his bass pedal and snare drum and then loops a perfect bow with his cymbals.

BETHNAL ARE:

GEORGE CSAPO - LEAD VOCALS
ELECTRICAL VIOLIN
KEYBOARDS AND HARMONICA
EVERTON WILLIAMS - BASS
PETE DOWLING'S: DRUMS
NICK MICHAELS - LEAD GUITAR
MANAGEMENT: SONG MUSIC LTD



BETHNAL (from left): Pete Dowlings, Everton Williams, Nick Michaelides, George Csapo (that's George on violin, too)



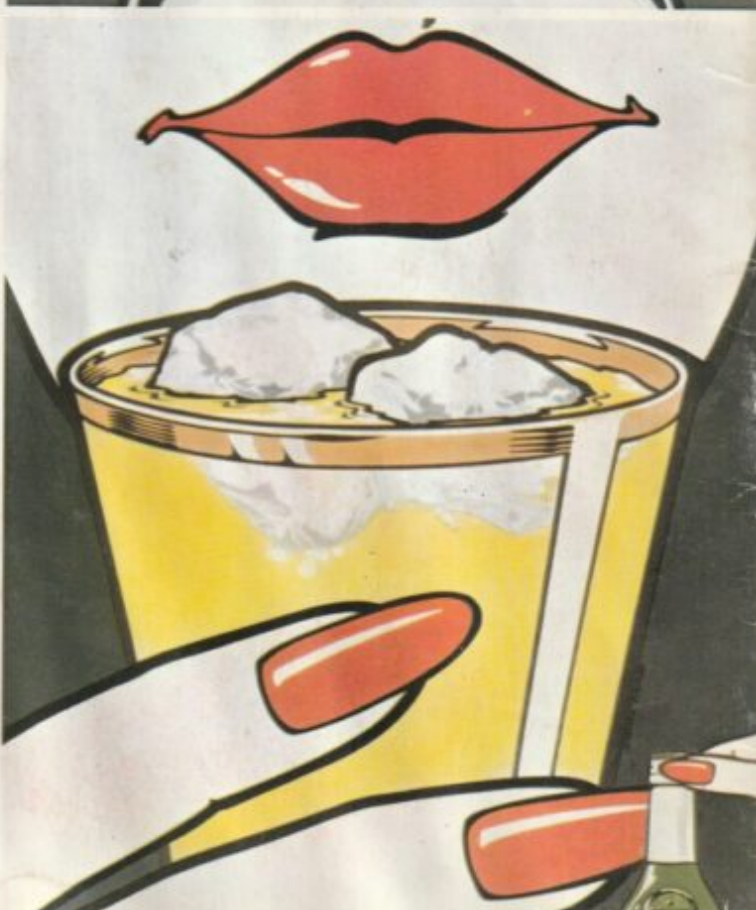
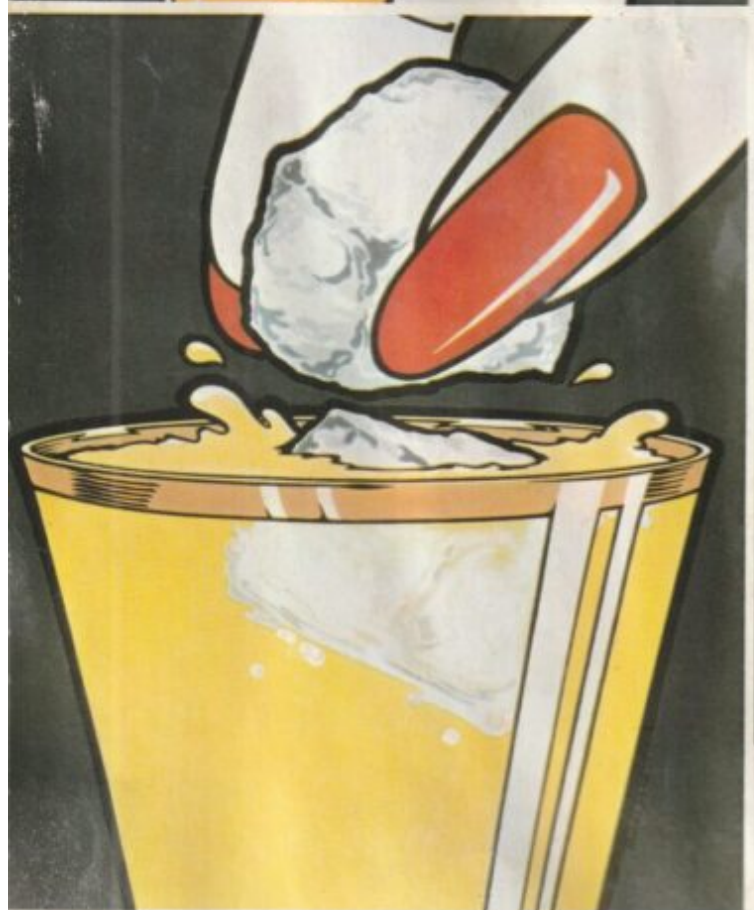
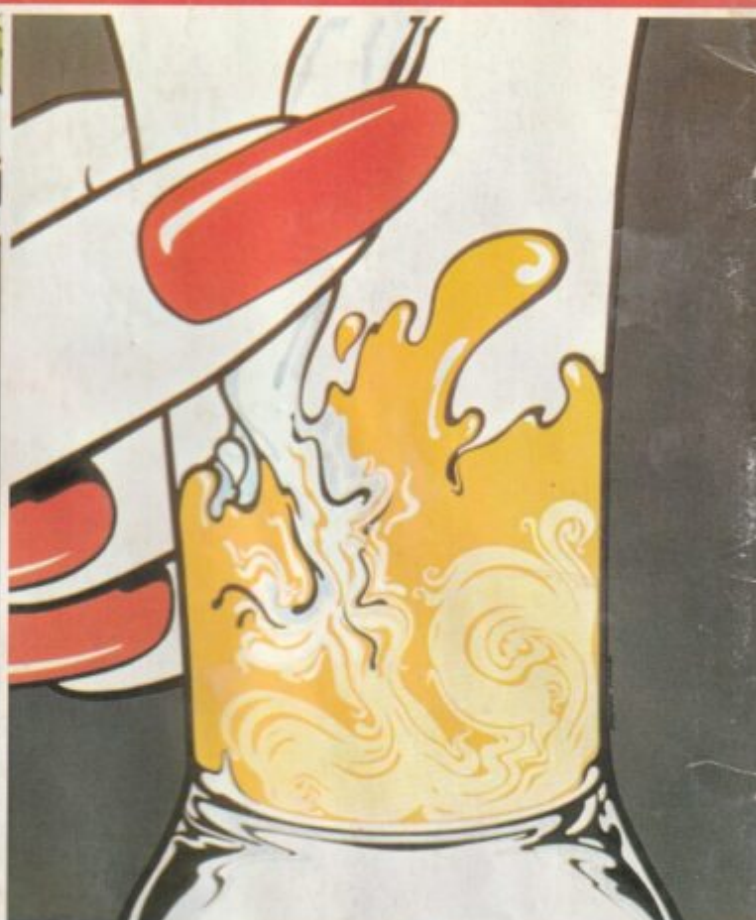
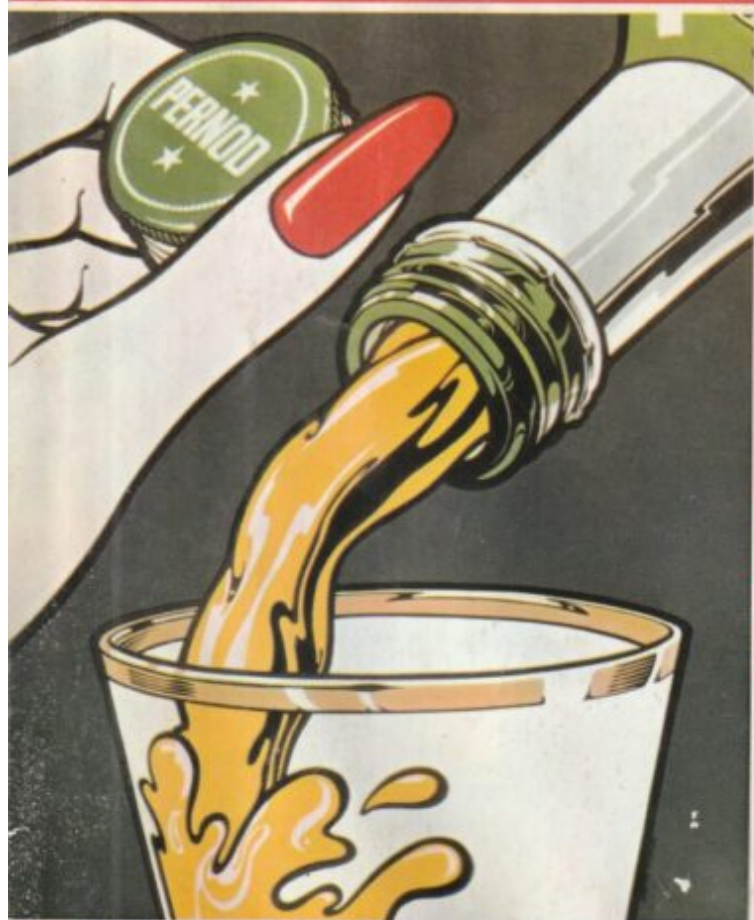
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