Kodak reports to laboratories on:
reproducing photos with your drawings . . . a pleasant way to learn
about lenses . . . a deceptively simple isoprene polymer

Predotted

The trouble with drawing reproduction materials is that they do not
give intermediate densities. They just cannot handle the gradations of
light and darkness that make up what everybody thinks of as a "photo-
graph."

Let us, then, solve this problem just as printers do with ink. Let us
break up a picture into tiny dots, all of the same density but of varying
size. But, instead of using a great big process camera with trick stops in the lens and ruled glass screen placed just so many thou-
sandths of an inch in front of the film, let's just use an ordinary cam-
era to copy your picture on some all-or-none film that has a dot struc-
ture pre-sensitized into it at the fac-
tory. Make a negative that way; combine it with any drawn, printed,
written material you want; and make your photocopies of the whole
thing as a unit.

Very well, you may ask, but where can you get such factory-predotted film?
Answer: from your favorite Kodak Graphic Arts Dealer. If you don't be-
lieve it, call him up right now and ask him to rush you out a box of his brand-
new Kodalith Autoscreen Ortho Film. If his name escapes you, write Eastman
Kodak Company, Graphic Arts Division, Rochester 4, N. Y.

Lens movie

We have had a composer compose some original music for us. Why?
To serve as background for a movie. Are we in the business of producing
movies with music in them to ent-
tain people? No, but the right kind
of music in a movie helps hold peo-
ple's interest while they learn. Learn
what? Most anything. About photo-
graphic lenses, in this particular
case. What about photographic lens-
es? About how they are designed and how the glass is made and how
the blocking, grinding, polishing, centering, coating, mounting, finishing,
and testing are done. Who cares?
Several different classes of people
care about 25 minutes' worth, we
hope. For examples: 1) youngsters
with a healthy curiosity about the

various basic technologies that un-
derlie our civilization; 2) engineers
and businessmen sufficiently cath-
olic in their interests to realize that it
often pays to watch over another fellow's shoulder if he's willing and
seems to know what he is doing; 3) professional photographers and
amateur camera fans who want to
see how good lenses are made. How
is this film booked for showing? By a
note to Eastman Kodak Company,
Camera Club and School Service,
Rochester 4, N. Y., to give us an
idea of what folks will be in the audi-
ence and what organization will
assume responsibility for sending
the film back to us in good shape.
The title is "Quality in Photographic Lenses." There is no rental charge.

Fascinating hydrocarbon

Strung up here is a basking shark, so called because the non-pregnant
female of the species loves to lie near the surface and bask, exposing
the tip of her head, her dorsal fin, and the top of her tail. Sometimes
more than 30 feet in length and 4½ tons in weight, it is larger than any
land animal.

Its gigantic liver drips with an oil that is poor in vitamin A but contains some 30 per cent of a fasci-
nating hydrocarbon, Squa-
lene, with this structure:

We wish to advise that we have procured a quantity of basking shark liver oil and have molecularly
distilled from it a colorless, high-
boiling cut which is 90-95% Squal-
ene, and now offer this in the market
place as Eastman Organic Chemical
No. P6966 at $2 for 100 grams, $8
for 500 grams. On a really big deal
you might succeed in bargaining us
down considerably. Like all East-
man Organic Chemicals, it is pres-
ently available only on assurance of
no use or resale as a food or drug
ingredient. It is for investigational
use only.

About this deceptively simple isoprene polymer there appears to be
plenty to investigate, aside from the riddle of why the basking shark and
the cacao shark of East African
waters accumulate so much of it.

Its presence in olive oil and absence
from vegetable oils likely to be
palmed off as olive oil arouses the
investigational instincts of law en-
forcement bodies. It is a precursor
of cholesterol. Though it is a normal
component of human sebum, in
topical application it is reported
to cause loss of hair without signs of
inflammation. (Unfortunately,
a consulting firm we hired to check
this observation failed to confirm
it.) Somehow Squa-
lene stimulates contro-
versy. Several short notes
have appeared in the literature
about "regenerated squalene," the
product obtained by recovery from
the hexahydrochloride. It appears
that here a considerable number of
double bonds have shifted so that
some of the methyl groups have
changed to methylenes. This prod-
uct, therefore, is quite different
from natural squalene.

Any takers for our idea of the genuine article? Just place your order for P6966 with Distillation Products Industries,
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This edition has been completely rewritten and thirty per cent of the material is entirely new. Some of the chapters have been rearranged, the chapter on sound recording has been omitted, and the following chapters have been added: *The Action of Charged Particles on the Photographic Emulsion, The Latent Image Produced by X-Rays, and The Sensitometry of Color Films and Papers.*

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is Vice President in Charge of Research at the Eastman Kodak Company in Rochester, New York. Dr. Mees was awarded the annual progress medal of Great Britain’s Royal Photographic Society in 1913 and again in 1953.

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