## Electronic flash unit is almost a necessity

Over the past few years, electronic of flash units have been redesigned, mini-aturized, and reduced in price so that everyone with a 35mm camera should

consider having one.
Today, I'll discuss how flash units

work. Later, I'll tell how you can use flash to Improve your photography. Bastically, a flash unit (or strobe) consists of a covered reflector fitted around a gas filled tube which is ignificant to by an electronic charge. Electricity shutter is open.



And not long before that she received ne Best of Drawing award in the Mich-an show at Paint Creek Center of Ro-McKanna studied at the Birmingham Bloomfield Art Association, Monroe Community College, Oakland Commu-nity College and privately.

Her work is available through Pic-tures and Mare of Farmington, Moriah Fine Art Gallery of Southfield and the Sales and Rental Gallery, Birmingham Bloomfield Art Association.

Birmingham, Mich

Monte Nagler's electronic flash froze the action of this shot at its peak. The picture of Dobbie Palleachi in the arms of Matt DeShantz was tak-

The Best of Show award from the Macornb Arts Council show which Jano McKanna won this month was the fifth in a row for this relatively new resident. When the statement was the statement when the statement who works in pastel, toll and charcoal, won three awards last year — the Victor Kich Family Purchase Award to Birmingham Bloomileld Art Association; third place and honorable mention from the Fall Festival of Arts, Trenton; and the Purchase Award from Northfield Hills Art on the Lake, Troy.

Artist enjoys winning streak

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N E T WORK The 'the Damen' sales pistone

en at a recent Fairlane Town Center fashion show.

Instantaneously, the capacitor begins, to restore more electricity in preparation for your next shot. This process is called recycling. Depending on the flash unit, recycling time will vary from a fraction of a second to as much as 15 seconds. When recycling time takes more than 15 seconds, it's time to replace (or recharge) the batteries.

Be sure to use the flash synchronization speed on your shutter speed dial.

tion speed on your shutter speed dial, usually 1/60 second and indicated in

red or orange.

THIS IS the speed you must set when using your flash because it synchronizes with the burst of strobe light. At faster shutter speeds, the focal plane shutter curtain would not have completely eyeled and you'll only get a partial picture. It would be like looking at a movie screen with the curtains partially opened.

Since electronic flash units fire at an average of 1/1000 second or faster, the indicated shutter speed on your camera in't a factor in correct exposure. Adjustments are made only by changing the loss opening.

justments are made only by changing the lens opening.

Thus, in a room where ambient light is weaker than the electronic flash (and this is almost always the case), slow shutter speeds don't result in over exposure or ghost images because aperture alone determines proper exposure.

In fact, the speed of flash is so quick that pictures taken with flash are often sharper because camera movement is negated.

Other advantages are convenience and economy. A small flash unit is easily stored in a pocket or camera bag where at one time bulky packages of flasheubes or bulbs had to be stowed. And once you have purchased an electronic flash, the only extra cost is buy-like hittlesies.

The cost per flash is negligible, how-ever, because modern units can give



photography

Monte Nagler

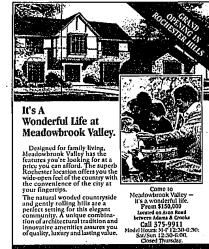
you hundreds of flashes with one set of batteries.

The light output of a strobe is measured by a "guide number." The higher the guide number, the more powerful the flash unit. I recommend a guide number of at least 40 with 100 ASA film. This way, you'll be sure to have a strong enough flash.

MANY YEARS ago, the photograph-le industry introduced automatic elec-tronic flash. Added to the flash unit is a sensor which measures light being re-flected from the subject. This informa-tion is then relayed to a tiny computer

which senses when enough light has been bounced back, and, by means of a quenching circuit, cuts off all remain-

quenching circuit, cus of automatic flash is that you can photograph subjects at varying distances from shot to shot and get perfect exposure each shot and get perfect exposure sach



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