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- The simplest of movements can sometimes be the most effective to freeze frame e.g. a model jumping, running, or dancing
- For our competition: A photo that freezes movement of any kind to capture detail of anything that wouldn't normally be seen by the naked eye e.g. a bullet flying; glass breaking; water splashes etc.



The Open Door, [wide shadow], April 1844

WILLIAM HENRY FOX TALBOT

(1800–1877)



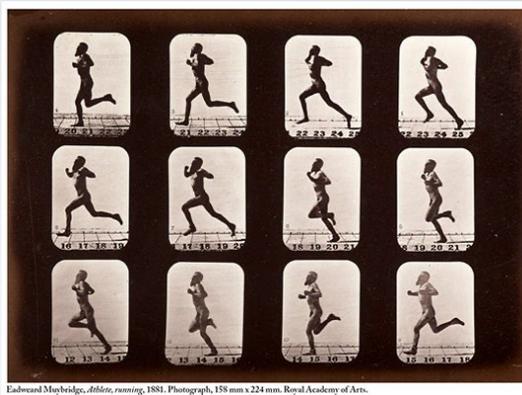
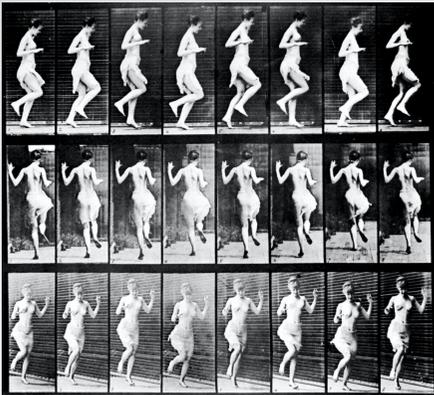
EADWEARD MUYBRIDGE

(1830 -1904)

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- Railroad magnate Leland Stanford hired him to prove that during a particular moment in a trotting horse's gait, all four legs are off the ground simultaneously
- In 1877 he used a battery of from 12 to 24 cameras and a special shutter he developed that gave an exposure of 2/1000 of a second - fast enough to freeze the horse's movements



Edward Muggeridge, *Athlete, running*, 1881. Photograph, 158 mm x 224 mm. Royal Academy of Arts.



HENRI CARTIER-BRESSON

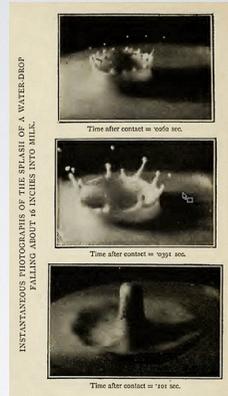
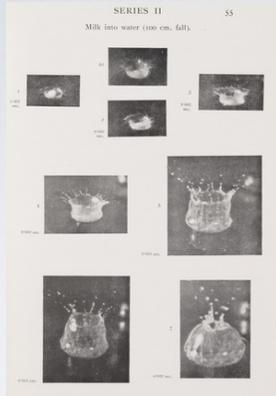
(1908 -2004)

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- The term invites photographers to develop an ability or intuition to press the shutter button moments before an event happens in order to freeze the action





ARTHUR MASON WORTHINGTON

(1852 -1916)

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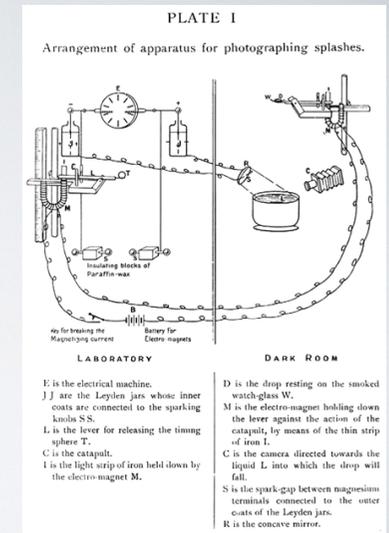
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- In 1908, he published a book, “A Study of Splashes,” which contained 300 photographs and drawings to supplement his narrative
- He captured those images using high-speed photography

Worthington's techniques were wonderfully simple:

- He created a short burst of light with an open-air spark gap powered by Leyden jars. The flash was triggered by an iron ball falling onto a pair of contacts
- He timed the flash by having two identical mechanisms: one for dropping the iron ball, and one for dropping the droplet of water. By adjusting the heights of the two mechanisms, he could quite accurately determine the timing



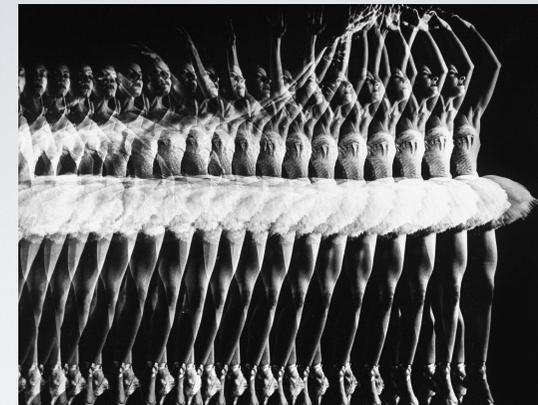
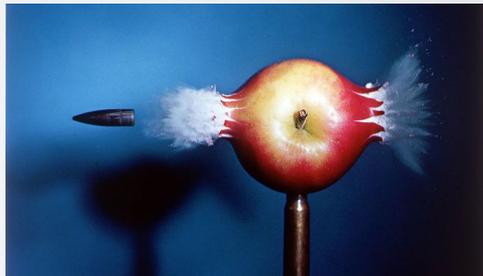
HAROLD EDGERTON

(1903 -1990)

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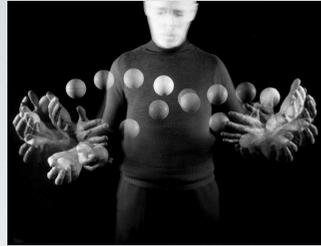
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- He applied his techniques to artistic photography, creating a sense of wonder from everyday events such as a falling drop of milk



The ballerina Alicia Alonso, December 1943

GJON MILI

(1904-1984)



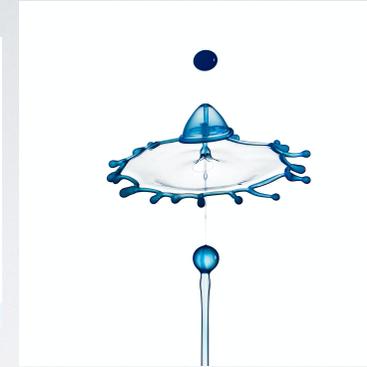
The juggler Stan Cavenaugh, 1941



A tumbling sequence, 1962



Conductor Karl Krueger, 1944



STEFAN (BRENNER)

Born 1983

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- He colours the liquids with ink, printer ink, food colour or textile colour and occasionally uses colour gels on the flashes as well



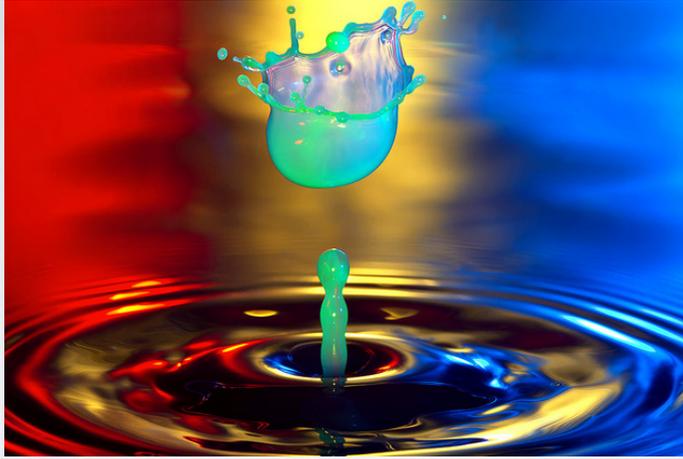


MARTIN WAUGH



MARKUS REUGELS





CORRIE WHITE



ORI GERSHT



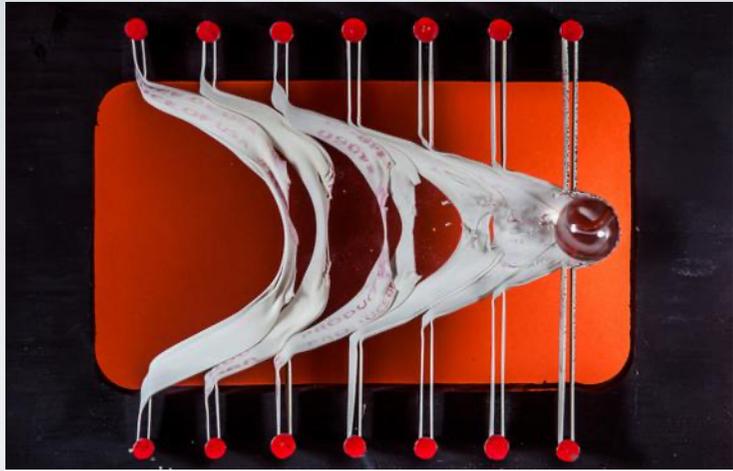


PETER WIENERROITHER

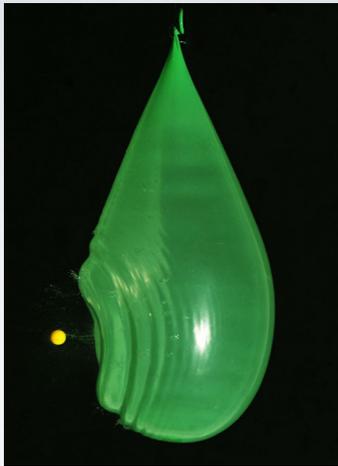


JASPER NANCE





ALAN SAILER



ADAM CONNAH (HANNOC)





JOHNNY CHUNG LEE



DENIS DARZACQ

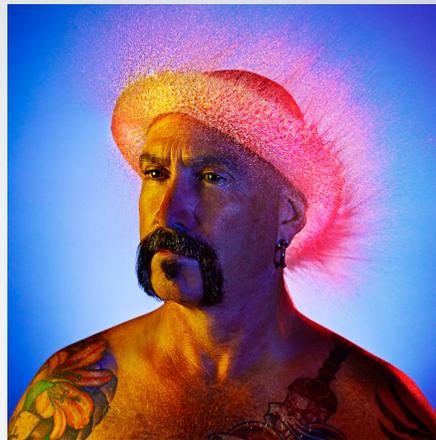




MARTIN KLIMAS

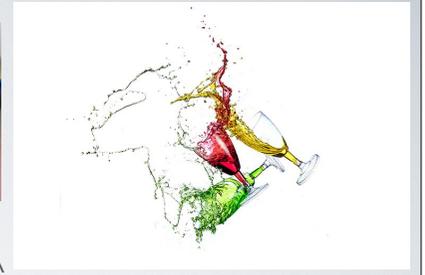
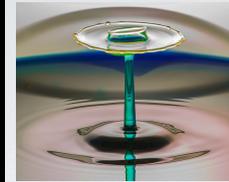


Sonic Sculptures

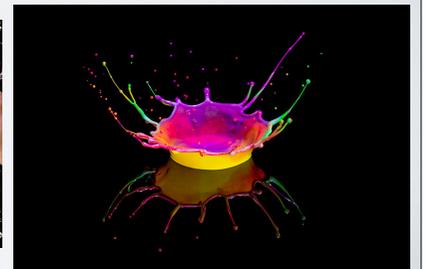


TIM TADDER

'Water Wigs'



RAMAKANT SHARDA

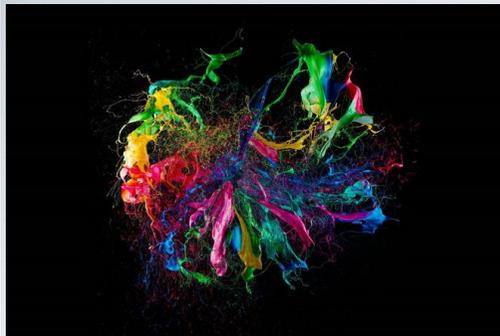




ERKAN YIGITER



JACK LONG



FABIAN OEFNER



HELENE DESPLECHIN





RACHEL SAMANYI



DINA BELENKO



RKAKOKA



WARREN KEELAN



PHRED PETERSEN



PETER SCHAFRICK



JON SMITH



DAMON POWERS



© Etienne Francey



© Wim van den Fleever



© Alessandro Bee



© Pål Hermansen

Wildlife
Photographer
of the Year 2020



Air Jaws - Chris Fallows 1996

HOW TO FREEZE THE ACTION

- Judging the exact moment can be tricky. Therefore, shoot a burst of pictures using the motordrive function. Make sure that you have enough space on your memory card for so many pictures, and be aware of your camera's limitations: some cameras can't continuously autofocus at the highest frame rate

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- If you can't select a fast enough speed to freeze the action, then increase your camera's ISO (or light) sensitivity. For every stop of ISO you increase, you can increase the shutter-speed by a stop. So if your camera is giving you 1/250 second at ISO 200, you could shoot at 1/1000 second at ISO 800

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- As well as using a fast shutter speed, you'll need fast reactions and familiarity with your kit. To speed things up, set everything up in advance, even taking a test exposure to check the image quality

Should you wish to learn more about how to conduct freeze-frame photography, please google HiViz.com. This site not only offers specialist equipment for sale, but also tells you how to achieve great results.

N.B. This is an American website and payment can only be made in US\$

For electronic triggers and instructions regarding water-drop photography, go to: cognisys-inc.com or to woodselec.com

NEXT TIME - 02 NOVEMBER

ABSTRACT

