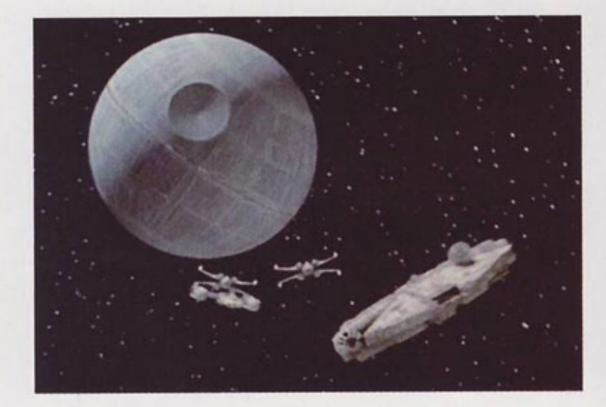




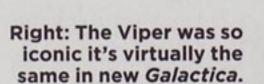


Dykstra gets to grips with the Millennium Falcon before unleashing it on the Death Star.



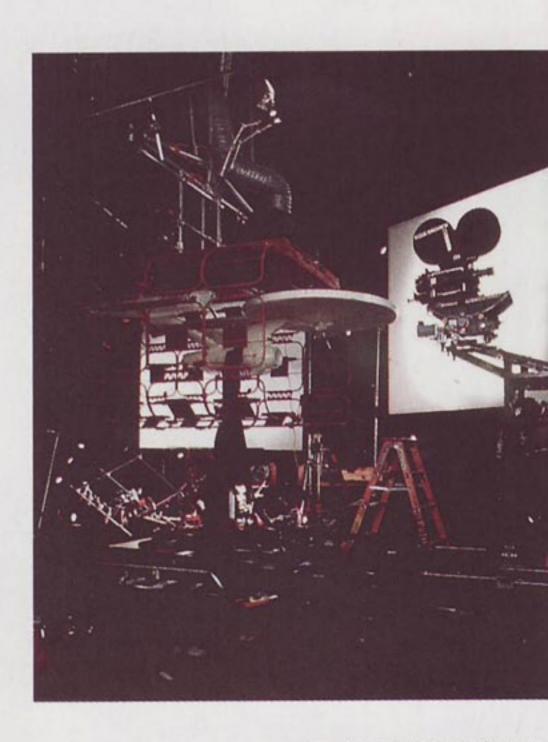
think you'll find he felt there were shortcomings in our system. For example, he believed that it was too expensive to create. He was correct, but when you consider what a longshot Star Wars was, we were incredibly successful. The things we all came up with for that film had never been done... What's that? Why didn't I work on the sequels? Because I didn't play ball [laughs]. All of that new technology cost

George a lot more than he probably ever intended to spend on it."



Below: The effects in Galactica broke new





The technology (above) that results in shots like the one below.

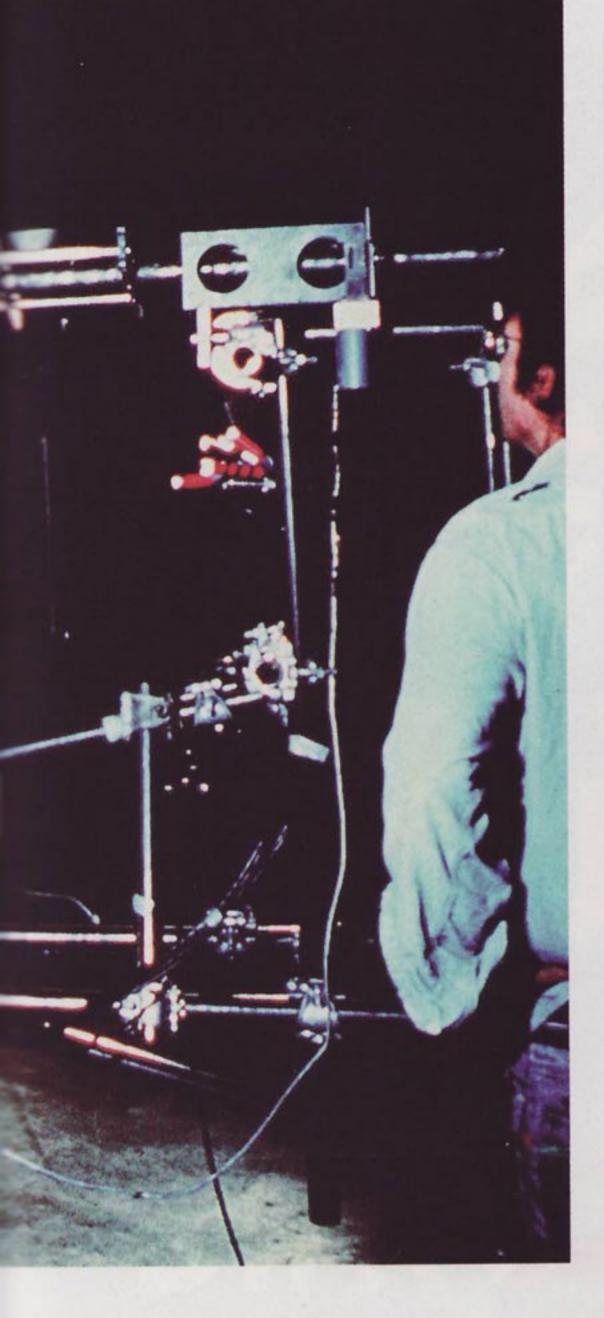
#### **BATTLESTAR GALACTICA**

Originally considered a poor, smallscreen version of Star Wars, any initial criticism was quickly thrown to the wind when the television show developed legs and a dedicated fan base second only to Star Trek.

"It was an almost impossible challenge. When you sit in front of a motion picture screen it fills about 30 or 35 degrees of your field of vision, but when you put a TV set in front of yourself it's a tiny little thing and it fills maybe five or ten percent of your point of view - especially in that era

so even the stars in Battlestar Galactica had to be the size of golf balls or else they would totally disappear. Even the size of the ships, as they passed the camera, had to be exaggerated. So we faced all of these problems - reductions in resolution, reductions in contrast, creating proper black levels, creating the speed of movement and making everything the right size. We had to do all of this and, at the same time, we were expected to produce - on a much lower level - the sort of effects that we pulled off on Star Wars. That





### LIFEFORCE

After the success of Poltergeist, director Tobe Hooper was given a bigger budget than Spielberg had for Raiders of the Lost Ark and paired up with Alien scribe Dan O'Bannon to bring cult novel Space Vampires to the big screen. The Cannon Group hoped it would be a summer blockbuster but the end result which was filled with gore and nudity - failed to register with a mainstream audience.

"It wasn't a particularly pleasant experience but I liked Tobe Hooper a great deal. The big problem was that it was very, very difficult to get coherent support from Cannon Films. Finding people who could do groundbreaking special effects in England at the time was very, very hard but that was where they wanted us to shoot Lifeforce. I remember going to a

British model-making organisation, telling them I wanted a model made a certain way and coming back to find out that they had just done their own thing. So I didn't have a great time in terms of my ability to collaborate with other people but I also think part of it was because I was a Yank and obviously they knew better [laughs]. Tobe was also used to showing up on the day and saying 'this is what we're going to do' but on a technical film you pay a price for that. It wasn't that Tobe's ideas were outlandish or hard to pull off - it was just that often times we would make things up on sight, which is his experience from doing his low budget stuff. But, all that said, it is a horror film. It's a zombie movie, you know? That's what Tobe's great at doing, but I think that movie just slipped away from him."







# "Star Trek was an opportunity for us to blow an audience away

#### STAR TREK

We bet his Airfix models

must have been perfect

when he was a kid.

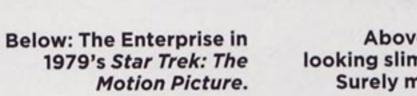
After the success of Star Wars it was inevitable that one of the genre's most famous franchises would be revamped for the big screen. What few could have predicted, however, is that director Robert Wise's effort would be so bloody ponderous. Great special effects though...

"We began working with lasers at that time and we built all kinds of great new stuff. Again, the process was one of invention. Star Trek was an opportunity for us, as inventors, to come up with new, realistic effects that would blow an audience away. Back then it was more difficult to do that because there was no CGI. You

just put something in front of the camera, recorded it on film and then composited these elements in a digital printer. On Star Trek I was fortunate enough to be able to bring in an industrial designer called Syd Mead - who went on to work on stuff like Aliens and 2010. I was a big fan of Syd's and he was the guy who worked on the designs for the exterior of V'ger. We wanted V'ger to be of a scale, and of a design, that didn't look as if it had been dreamed up in 1979. Syd was such a futurist and he came up with pseudo science to support his concepts and I'm still very proud of how it came out. Creating that was the best part of a terrific experience."



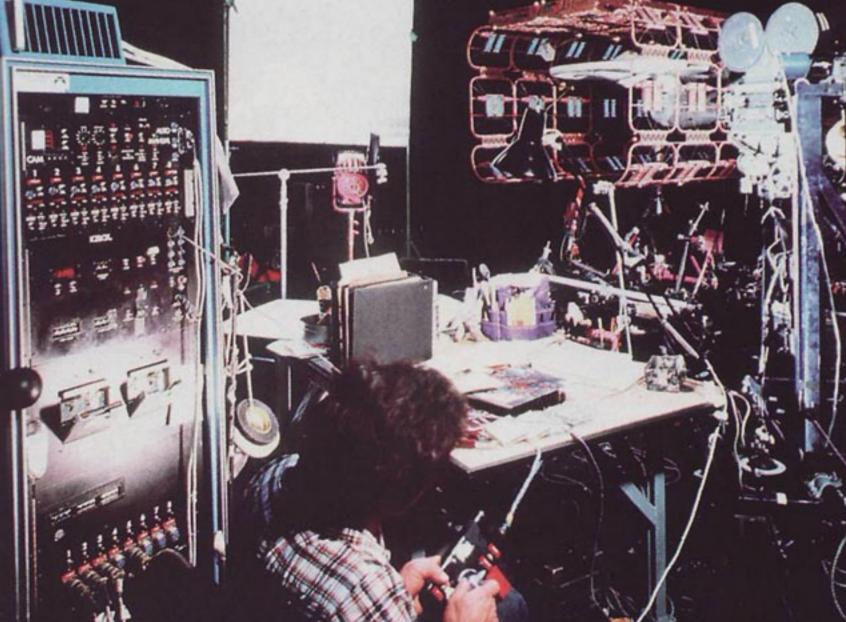
Above: Val Kilmer looking slim and toned? Surely must be CGI...

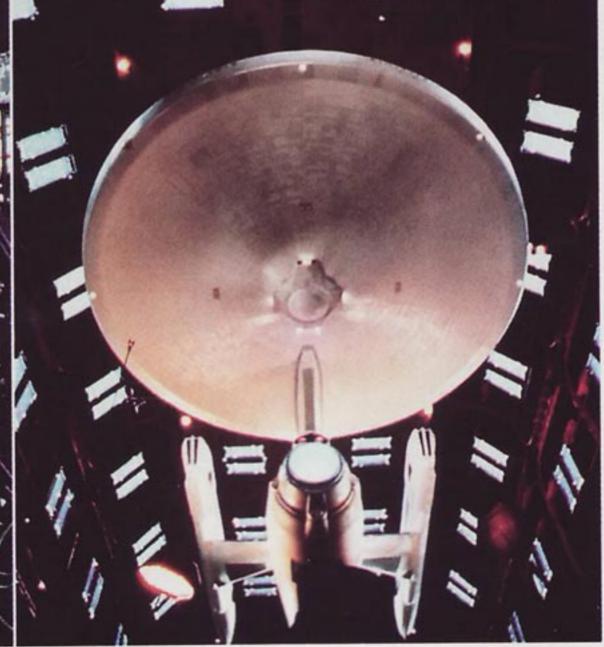




Tim Burton bailed out on this 1995 sequel which dumped the gothic atmospherics of Batman Returns in favour of frantic overacting (yes, Jim Carrey and Tommy Lee Jones, we're looking at the pair of you), dodgy one liners and Bat-nips. It did, however, quietly introduce a digitally created superhero...

"That was the first time I had to animate something with CGI. It's when Batman leaps out of the hotel and then jumps into a manhole in the street. That was a very interesting experience and a seminal point for me. I had started to direct commercials before doing Batman. I did that because I was so frustrated >>









with optical compositing. I was doing digital compositing on video long before it was commonplace on film. That meant that when I went to work on *Batman Forever* I was well positioned to see how far we could press the digital medium.

"The pressure of doing something like a *Batman* movie is big but this is my trade - to consistently come up with new ways of doing things. Now, of course, you see digital characters in every superhero movie, but we were there first."

#### SPIDER-MAN/ SPIDER-MAN 2

Coming hot on the heels of Bryan Singer's X-Men series, Sam Raimi's pair of comic book adaptations further cemented the superhero movie as a summer blockbuster mainstay. And after the likes of Batman and Robin and Spawn that was no mean feat... As the visual effects designer on Spider-Man 2, Dykstra obtained his second Academy Award.

"I think my involvement with the physics of the world, and my enjoyment of all visual stimulation, really helped me out on these movies. For example, if you take a contemporary race car film like *Talladega Nights...* the race car footage might look exciting but unless you've done that yourself you just don't understand what it's like. None of us can be Spider-Man but my intention was to try and make you feel as if you were right there with him when he was flying about the city. So although Spider-Man travelled much faster than Spider-Man would really travel if he

The Spider-Man franchise was another of John Dykstra's success stories.

"When they say 'make it real' they really mean 'make it believable"



that allowed you to feel as if you were having that experience. And if you take Spider-Man 2 and Doc Ock - his tentacles were a compromise between what the real thing would do and what you would believe they would do. When people say 'make it real' what they really mean is 'make it believable.' That's what an illusionist does

and Sam was such a

## HANCOCK

Not even great effects could carry Hancock's

dubious story arc.

Will Smith's attempt at entering the 2008 superhero sweepstakes resulted in grand box office but a lukewarm critical reception. Not quite *Iron Man*, in other words, but a damn sight more successful than *The Incredible Hulk*...

"I had an enthusiastic team with me on *Hancock* and I think that's part of why the film looks so good. Again, I think that the key, and the toughest

part of making *Hancock*, was to stretch the limitations of what is believable and what is real. We wanted a special effect where this guy picks up a

vehicle in downtown LA and carries it at what would be deemed a believable speed. The challenge there was making sure he did it fast enough to be exciting but slow enough to be acceptable to the audience – and getting that fine line with digital animation is always hard. I've done lots of things in movies – including Hancock – that I didn't agree with, but it's not my job to argue. It is my job to take what the director is asking for and do the best I can to make the effects believable." **SFX** 

