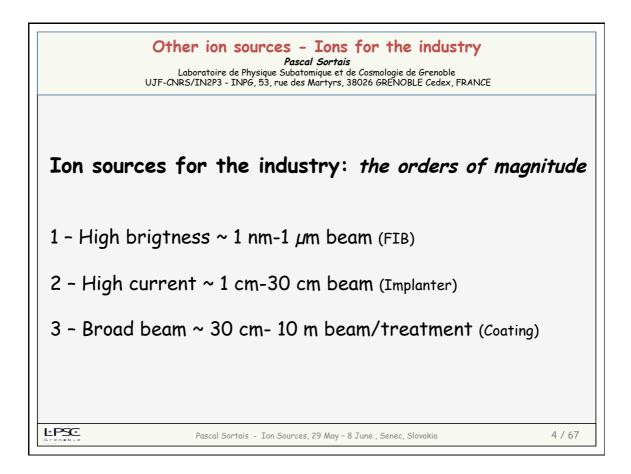
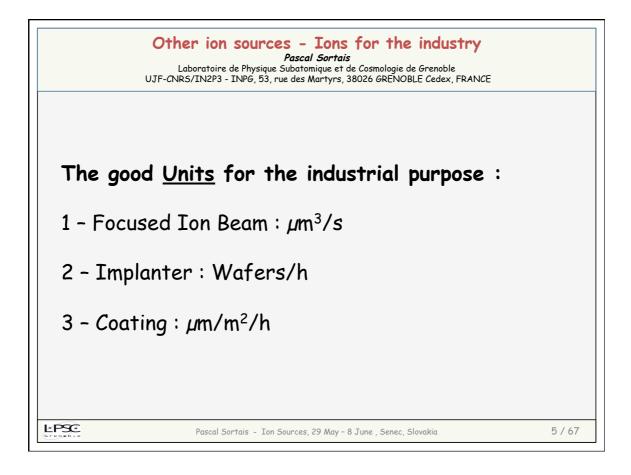
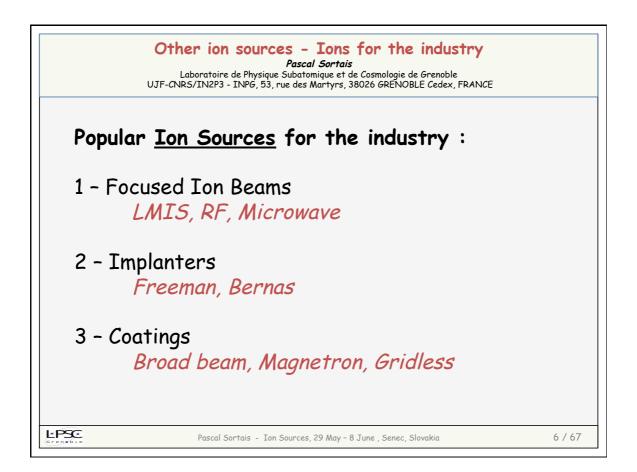
	Other Ion Sources <i>Pascal Sortais</i> Laboratoire de Physique Subatomique et de Cosmologie de Grenoble UJF-CNRS/IN2P3 - INPG, 53, rue des Martyrs, 38026 GRENOBLE Cedex, FRANCE	
	Other Ion Sources ???	
	Not : ECR, EBIS, RF, Fusion, Laser, MEVVA, Radioactive , Breeders, Medical, Multi-beam	
	What to do ???	
ĿPSC	Pascal Sortais - Ion Sources, 29 May - 8 June , Senec, Slovakia	1/67

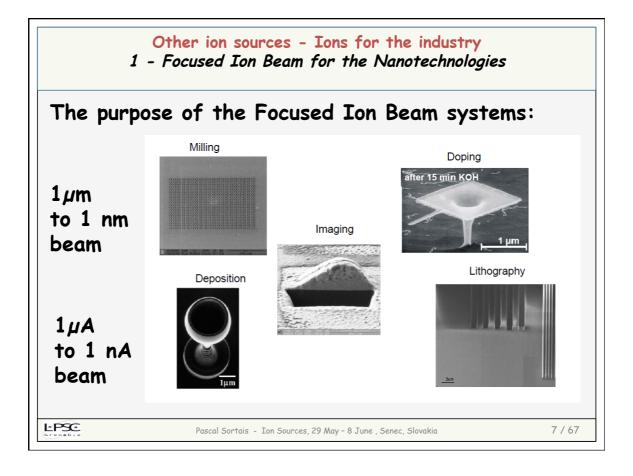


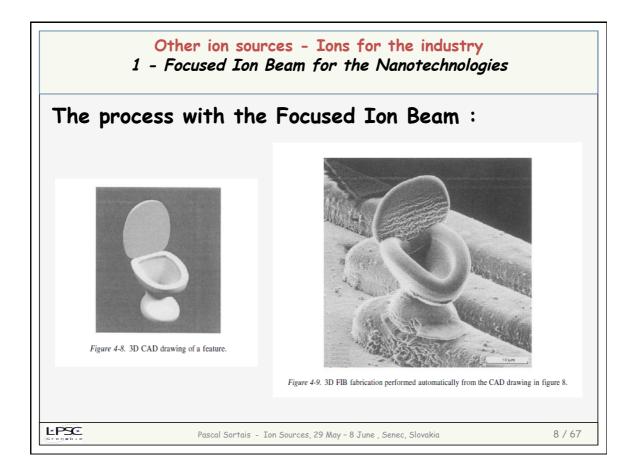
Other Ion Sources - Ions for the industry Pascal Sortais Laboratoire de Physique Subatomique et de Cosmologie de Grenoble UJF-CNRS/IN2P3 - INPG, 53, rue des Martyrs, 38026 GRENOBLE Cedex, FRANCE
Ion Sources for Industry : the fields of use
- 1 - Focused Ion Beams : Focused Ion Beam for the nanotechnologies (FIB) Ion beam figuring for optical components (IBF)
- 2 - High Intensity Beams for MicroElectronics Ion Sources for implanters
- 3 - Broad Beam & "Ionic Machine" for the Industrial Coating Ion Source for Sputterring Magnetron discharge & End Hall ion source
Pascal Sortais - Ion Sources, 29 May - 8 June , Senec, Slovakia 3 / 67

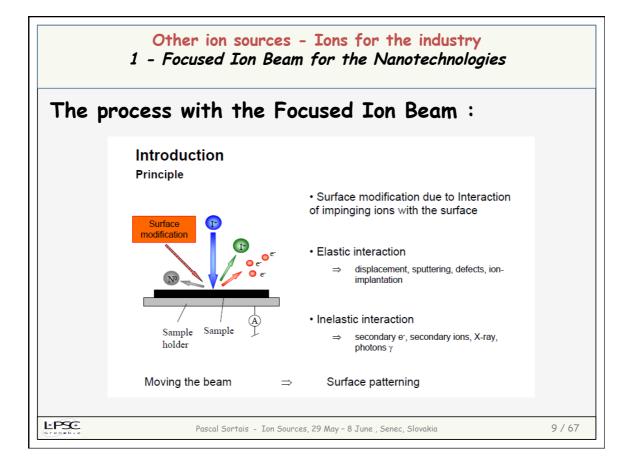


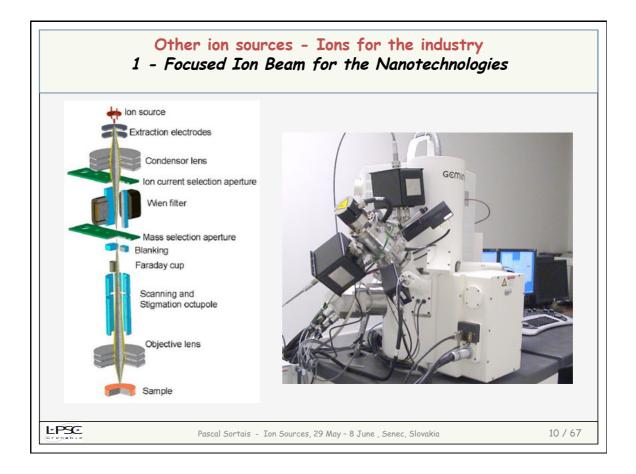


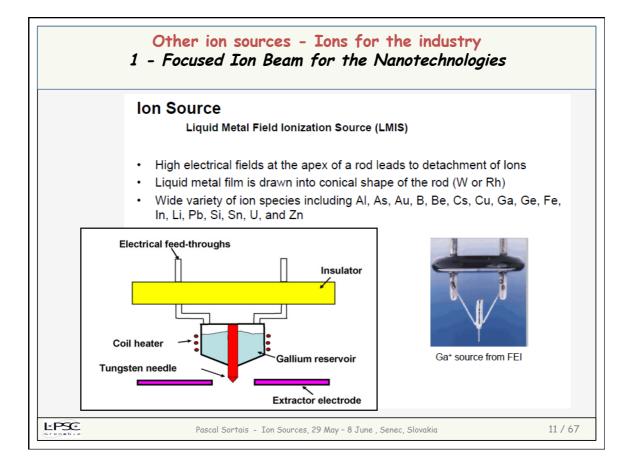


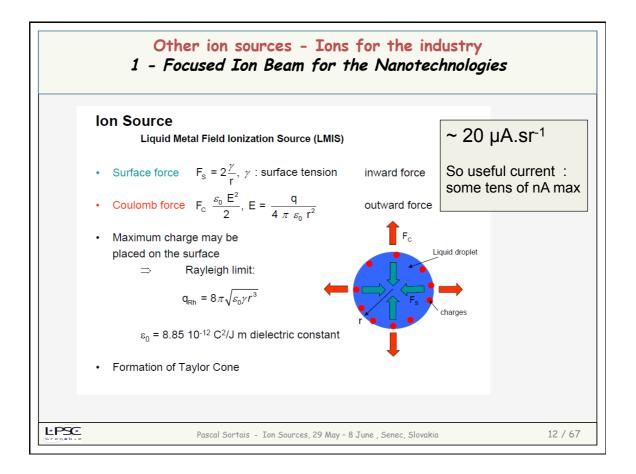


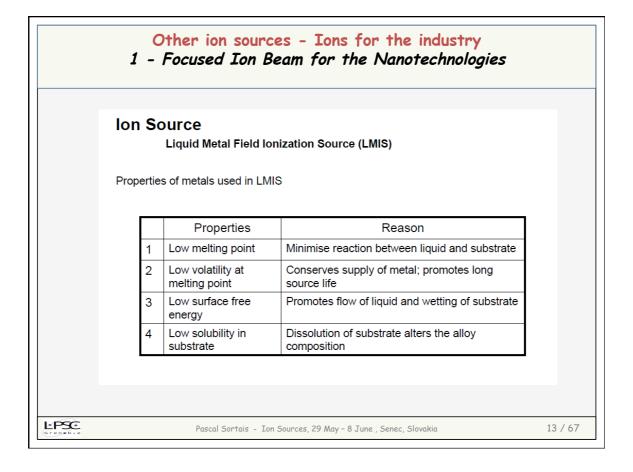


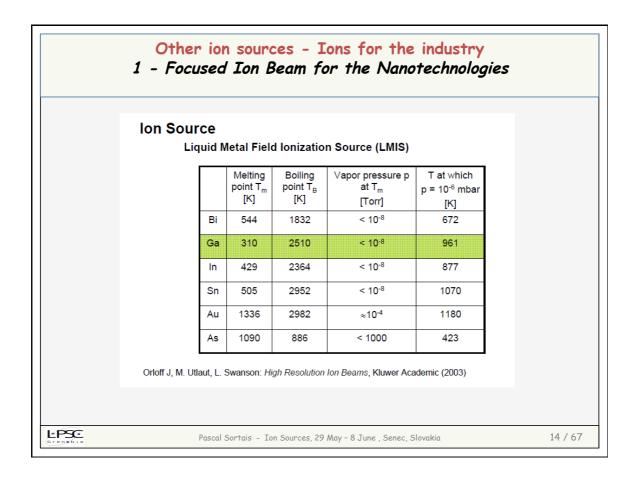


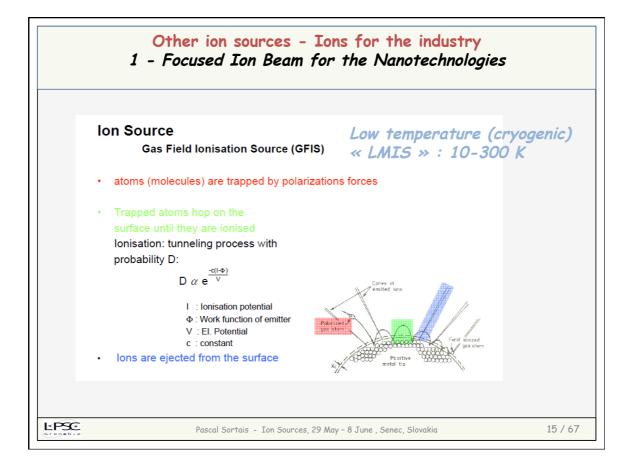


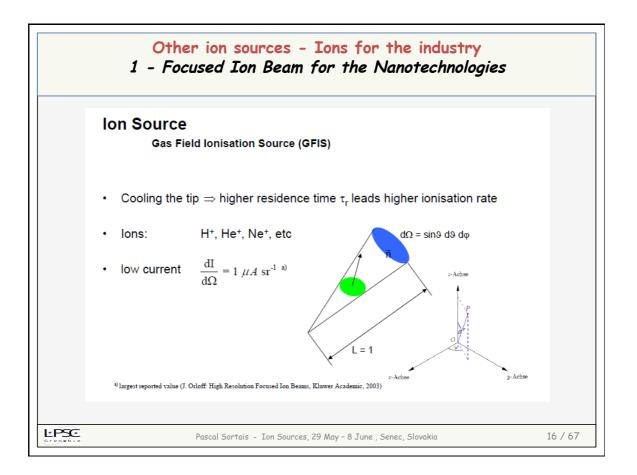


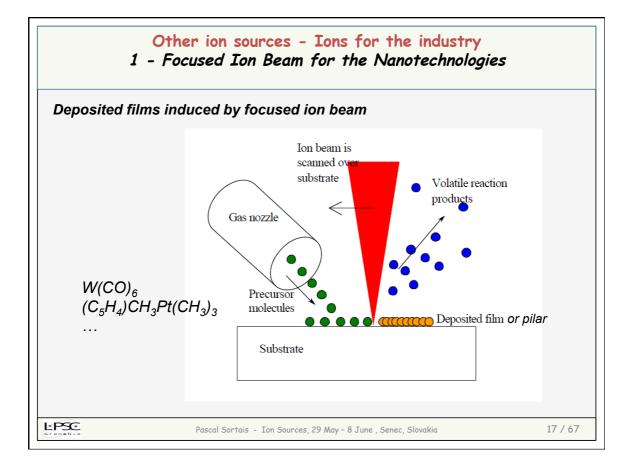


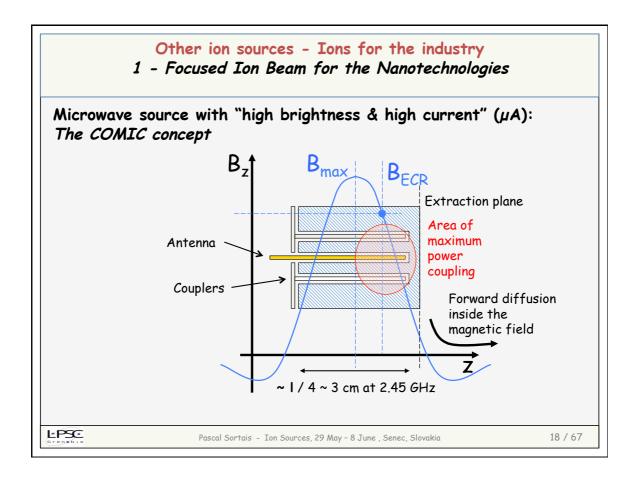


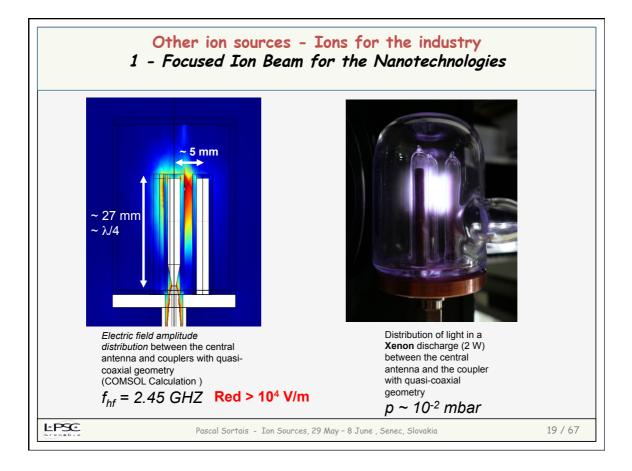


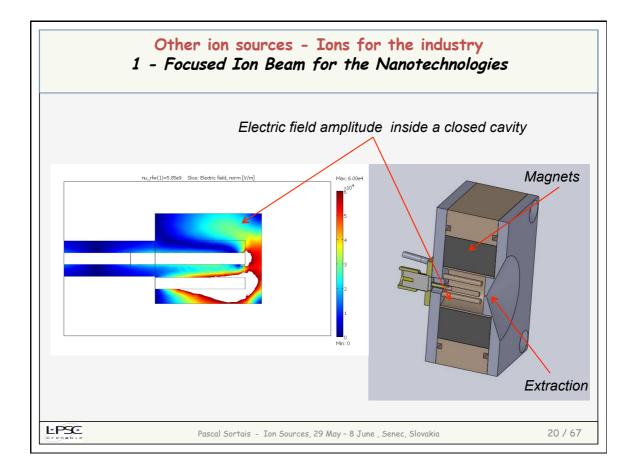




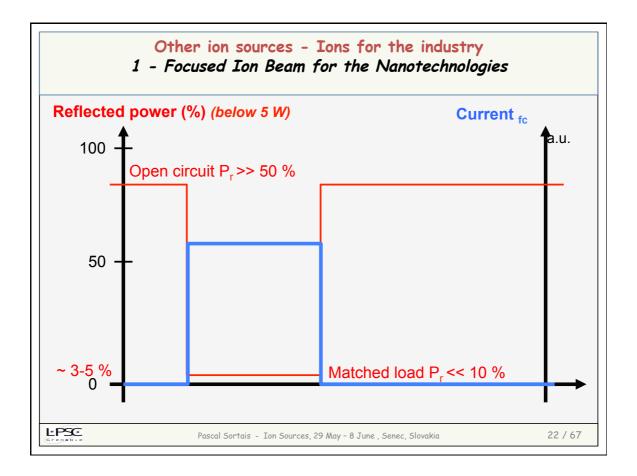


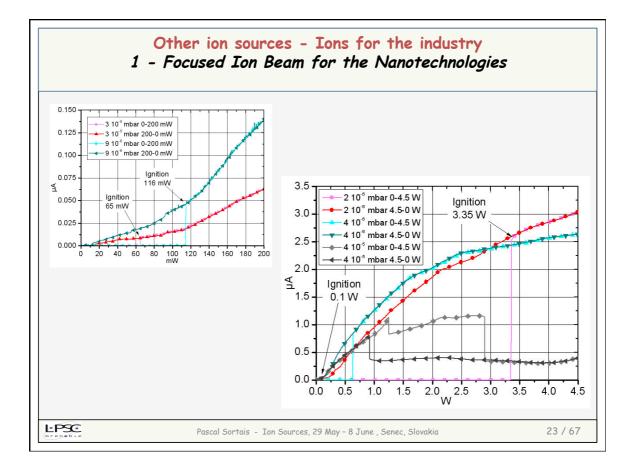


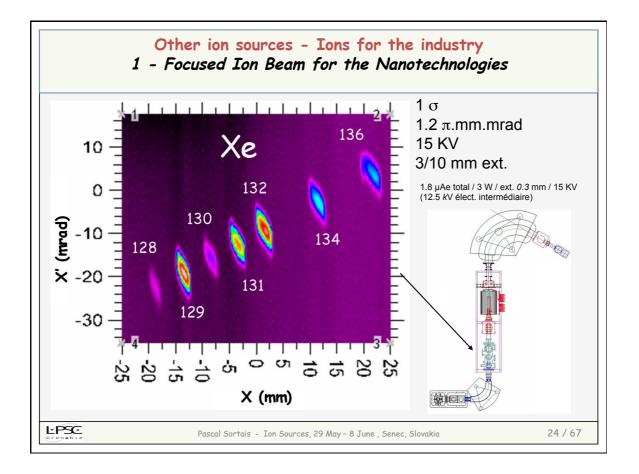


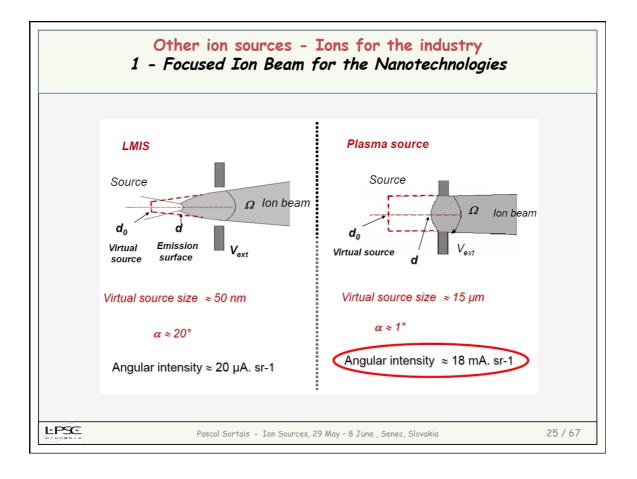


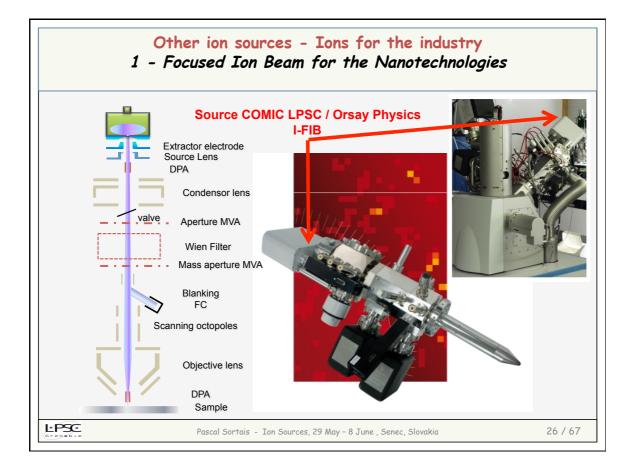


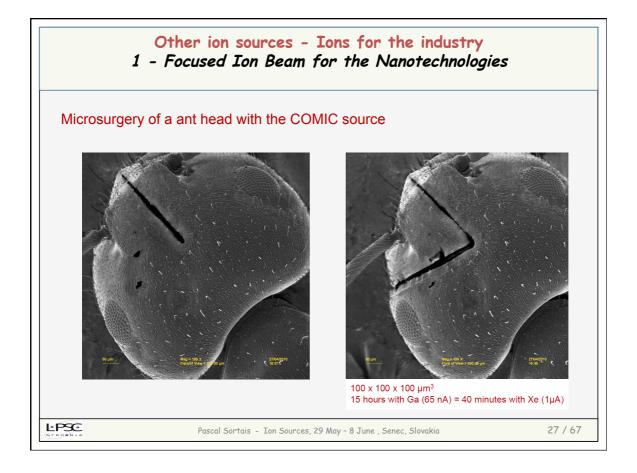


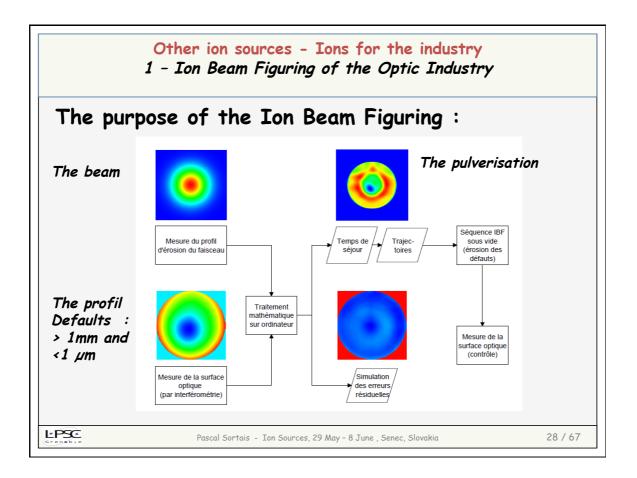


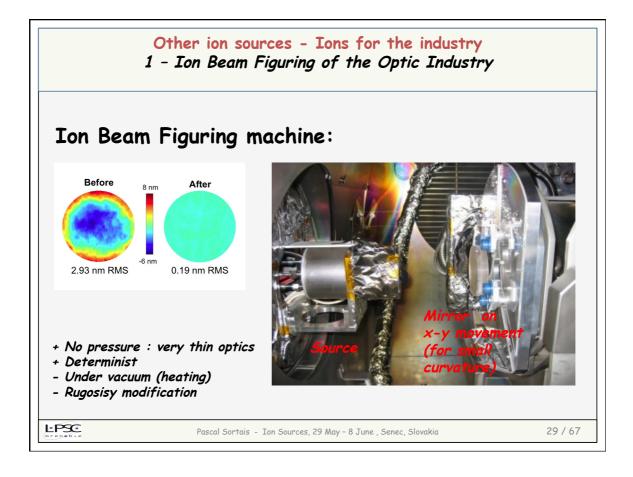


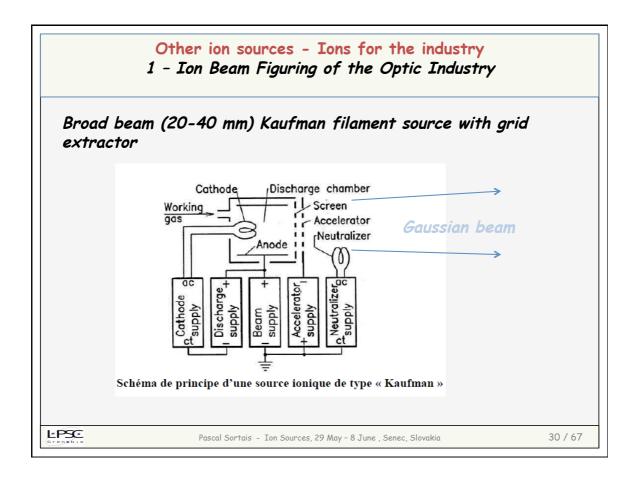


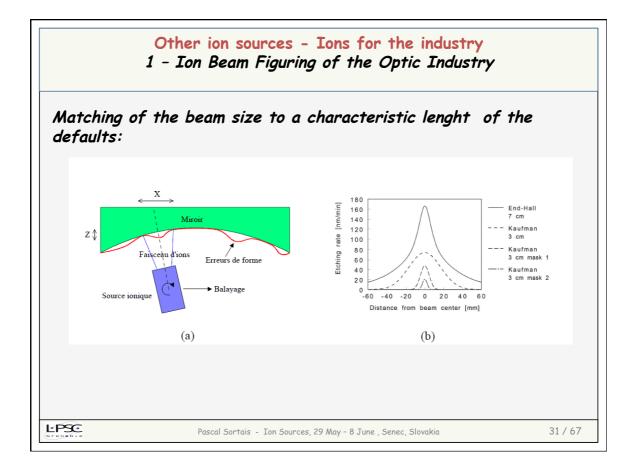


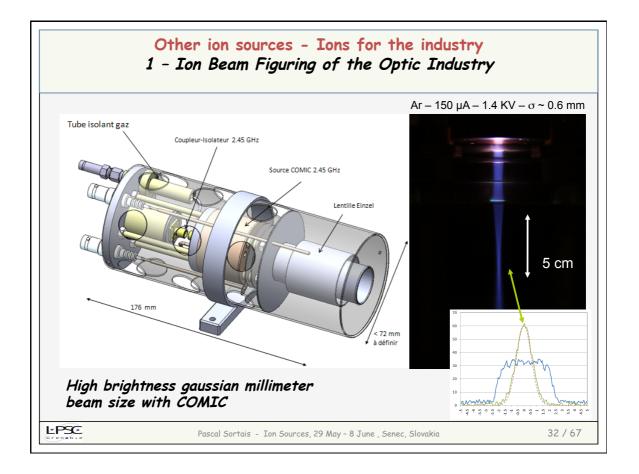


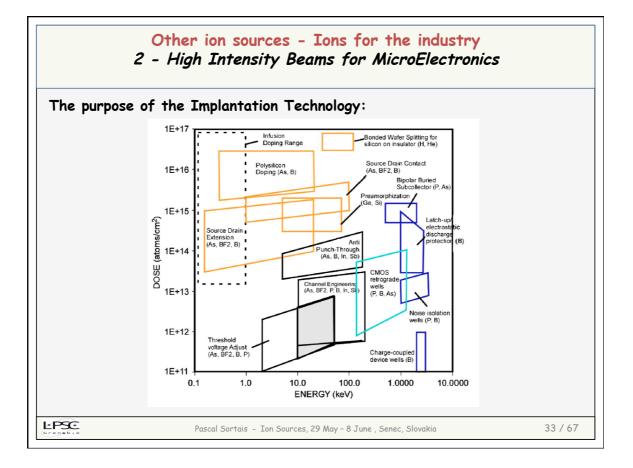












he demand for the Implan	tation Techno	logy:		
oron : BF3, B2H6	TABLE 1			
Phosporus : P (solid) , PF ₃ ,		YPICAL ION SOURCE HIGH CURRENT (BA		
•			AVERAGE ION	SOURCE OPERATING HOURS
Arsenic : AsH ₃	SOURCE TYPE	PRIMARY SPECIES	BEAM CORRENT	OFERANING HOONG
5	ENHANCED BERNAS	MIXED (As ⁺ ,P ⁺ ,B ⁺)	2-5mA	140-160 hrs.
		MIXED (As ⁺ ,P ⁺ ,B ⁺)	5-10mA	80-120 hrs.
		B ⁺	~5mA	~80 hrs.
		B ⁺	~10mA	~40 hrs.
		As ⁺ ,P ⁺	~5mA	~140 hrs.
		As ⁺ ,P ⁺	~10mA	~100 hrs.
		Sb ⁺	5-10mA	40-50 hrs.
		MIXED (As ⁺ ,P ⁺ ,B ⁺)	2-5mA	60-80 hrs.
	STANDARD FREEMAN	MIXED (As ⁺ ,P ⁺ ,B ⁺)	5-10mA	30-50 hrs.
		B ⁺	~5mA	30-40 hrs.
		в ⁺	~10mA	15-25 hrs.
		As ⁺ .P ⁺	~5mA	40-60 hrs.
		As ⁺ .P ⁺	~10mA	30-40 hrs.
		Sb ⁺	5-10mA	20-40 hrs.

