

CONVOCAATION

for ASM International N.V.'s Annual General Meeting of Shareholders, to be held on Tuesday 15 May 2012, at 2 p.m. CET at the Hilton Hotel, Apollolaan 138, Amsterdam, the Netherlands.

AGENDA

1. Opening / Announcements
2. Report on the financial year 2011
3. Adoption of the Annual Accounts 2011 *
4. Adoption of dividend proposal *
5. Discharge of the members of the Management Board from liability in respect of their management *
6. Discharge of the members of the Supervisory Board from liability in respect of their supervision *
7. Appointment of the Company's auditors for the financial year 2012 *
8. Amendment of the Articles of Association *
9. Composition of the Supervisory Board *
10. Designation of the Management Board as the competent body to issue common shares and rights to acquire common shares and to set aside any pre-emptive rights *
11. Authorization of the Management Board to repurchase shares in the Company *
12. Market valuation of the Company
13. Any other business
14. Closure

* = voting item(s)

The agenda plus explanatory notes and the Statutory Annual Report 2011 (which includes the Annual Report 2011 and the Annual Accounts 2011) are available for inspection by each shareholder as of today at the Company's offices at Versterkerstraat 8 in Almere, the Netherlands and at the ABN AMRO Bank N.V., tel. (+31) (0) 20 3442000, Gustav Mahlerlaan 10, in Amsterdam, the Netherlands. They are also placed on the website of the Company: www.asm.com and available via www.securitiesvoting.com.

Record Date

For this meeting persons who are entitled to vote and/or attend the meeting, are considered to be those who are registered as shareholders of the Company in a (sub) register on 17 April 2012 following the registration of all transactions on that date ("Record Date"), provided that such person has provided the Company with a notification in accordance with the following paragraph. For holders of ordinary shares in bearer form, the administration of the institutions that are intermediaries as defined in the Securities Giro Act (the "Intermediary") are appointed as (sub) registers.

Notification

Holders of ordinary shares in bearer form or their proxy's who wish to attend the meeting, must as from 18 April 2012 and no later than 8 May 2012 give notice hereof to ABN AMRO Bank N.V. via the Intermediary that deals with the administration of their shares are registered. The Intermediary must submit to ABN AMRO Bank N.V. a statement via www.securitiesvoting.com/intermediary including the number of shares notified for registration and held by that shareholder at the Record

Date no later than 8 May 2012. With the registration Intermediaries are requested to include the full address details of the relevant holders in order to be able to verify the shareholding on the Record Date in an efficient manner. The shareholders will receive via ABN AMRO Bank N.V. a registration certificate which serves as attendance card for the meeting.

Holders of registered shares, a usufructuary of registered shares who is entitled to vote or their proxy, who wish to attend the meeting, must give written notice hereof to the Company no later than 8 May 2012.

Power of attorney

A shareholder who wishes to attend by proxy, must submit an executed legally valid power of attorney – whether or not in the form of the bottom side of the registration certificate - to the Company no later than 8 May 2012. Persons who are entitled to attend the meeting may also electronically instruct Ruud van Bork (an independent civil law notary of Loyens & Loeff N.V.) to vote no later than on 8 May 2012, via www.securitiesvoting.com.

Holders of shares registered with Citibank, N.A., New York, United States, will receive a separate invitation to attend the meeting.

Almere, 3 April 2012

ASM International N.V.
The Management Board